

# CANADIAN INDUSTRY IN 1871

Ontario County Series #12

## KENT COUNTY INDUSTRIES, 1871 INDEX TO MANUSCRIPT CENSUS

G.T. Bloomfield & Elizabeth Bloomfield

G.T. Bloomfield, series editor

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**Cover Illustration** (selected and described by G.T. Bloomfield)

The view of Whitevale, Township of Pickering, was chosen to illustrate Canadian industry in 1871. At this time, a high proportion of manufacturing activity was still located in small settlements, some of which were growing rapidly into towns. **Lovell's Directory** (1871) described Whitevale as:

A thriving village...[with] extensive flouring and woollen mills... Montreal Telegraph Co has an office here. Distant from Whitby, the county town, and a station of the Grand Trunk Railway, 13 miles. Mail daily. Population about 250.

Truman P. White has acquired the water rights at Majorville on Duffin's Creek in 1845 and developed a grist mill, a saw mill and, later, a woollen mill. By 1871 the census enumerated six significant industrial establishments employing 66 workers and with a total value of production amounting to \$125,000. The transition from waterwheels (70 horsepower) to steam engines (66 horsepower) was already apparent in the village by this date. In common with its counterparts across the country, Whitevale's basic industrial activities were closely associated with the local agricultural area. There was also considerable economic integration apparent in the ownership of several establishments by Truman P. White and in the making of staves in the sawmill for the cooper shop which in turn supplied the flour mill with basic containers for transporting the flour to market.

Unlike many of its contemporaries, Whitevale has remained about the same size ever since 1871. The 1971 census recorded a population of only 273 in the unincorporated settlement. Whitevale never achieved connection by railway, county road or provincial highway. Much of the surrounding land was acquired for the planned Pickering airport and new town in 1972/3 and today the settlement is threatened by the creation of a municipal solid waste dump for Metropolitan Toronto and the Durham Region.

The illustration was first published in the **Illustrated Historical Atlas of the County of Ontario** (Toronto: J.H. Bees and Co., 1877), reprinted Ross Cumming, 1972).

**For Reference Only**

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**CANADIAN INDUSTRY IN 1871 (CANIND71) PROJECT**

**Ontario County Series #12**

**KENT COUNTY INDUSTRIES, 1871  
INDEX TO MANUSCRIPT CENSUS**

**G.T. Bloomfield & Elizabeth Bloomfield**

**G.T. Bloomfield, series editor**

**1991**

**Department of Geography**

**University of Guelph**

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## CANADIAN INDUSTRY IN 1871: ONTARIO COUNTY SERIES

The first Census of Canada was taken at a time when the "hum of industry" was believed to be an essential sign of a community's progress, usually associated with the benefits of railway connections. Many people at this time seem to have shared Thomas Keefer's vision of "the civilizing tendency of the locomotive":

A town has been built and peopled by the operatives -- land rises rapidly in value -- the neglected swamp is cleared and the timber is converted into all sorts of wooden "notions" -- tons of vegetables, grains or grasses are grown where none grew before -- the patient click of the loom, the busy hum of the spindle, the thundering of the trip-hammer and the roaring of steam, are mingled in one continuous sound of active industry.<sup>1</sup>

The CANIND71 database created from the manuscript census schedules of industrial establishments is used in this series to provide snapshots of industrial activity in Ontario just after Confederation, at a time of transition in technology, business organization and work discipline. The 36 Ontario counties varied in the amount and intensity of "active industry", depending on how long they had been settled, how much of their population lived in cities and towns, and how well connected they were by rail or water transport.

One title in the CANIND71 series of research reports has already examined the mix of industrial activity in Wellington County, Ontario, as a model for what might be done for any other place of similar size and population in Ontario, Quebec, New Brunswick or Nova Scotia.<sup>2</sup>

The reports in the Ontario County Series have less detailed description and analysis than the study of Wellington County and more tabulations of data compiled out of the CANIND71 database. The reports follow a similar format. First, features of the CANIND71 database, especially its geographical organization and industrial classification, are explained so that readers can understand tables for particular counties. Each county is defined and factors in its history, location and resources that influenced the amount and character of industry by 1870-1 are noted. Then the structure and characteristics of industry in that county are summarized under the headings of location and distribution, industry types, size structure of industrial units, use of water and steam power, workplace types, and leading firms. The appendices present aggregate data grouped by geographical location, industry classifications and specific industry types. Summary data for individual establishments are then listed for the whole county, alphabetically by the proprietor's name, with additional lists for establishments in each city, town or village.

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<sup>1</sup> T.C. Keefer, Philosophy of Railroads (1850), edited with an introduction by H.V. Nelles (Toronto: University of Toronto Press, 1972), p. 9.

<sup>2</sup> Elizabeth Bloomfield and G.T. Bloomfield, The Hum of Industry: Millers, Manufacturers and Artisans of Wellington County CANIND71 Research Report 9 (Guelph: University of Guelph, Department of Geography, 1989).



## CANADIAN INDUSTRY IN 1871: ONTARIO COUNTY SERIES

CANIND71 Project, Department of Geography  
Guelph, Ontario, N1G 2W1

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- 0-88955-271-1 Perth County Industries, 1871: Index to Manuscript Census (#24 in series)
- 0-88955-272-X Peterborough County Industries, 1871: Index to Manuscript Census (#25 in series)
- 0-88955-273-8 Prescott & Russell County Industries, 1871: Index to Manuscript Census  
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- 0-88955-274-6 Prince Edward County Industries, 1871: Index to Manuscript Census  
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- 0-88955-276-2 Simcoe County Industries, 1871: Index to Manuscript Census (#29 in series)
- 0-88955-277-0 Stormont, Dundas & Glengarry County Industries, 1871: Index to Manuscript  
Census (#30 in series)
- 0-88955-278-9 Victoria County Industries, 1871: Index to Manuscript Census (#31 in series)
- 0-88955-279-7 Waterloo County Industries, 1871: Index to Manuscript Census (#32 in series)
- 0-88955-280-0 Welland County Industries, 1871: Index to Manuscript Census (#33 in series)
- 0-88955-281-9 Wentworth County Industries, 1871: Index to Manuscript Census (#34 in series)
- 0-88955-282-7 York County Industries, 1871: Index to Manuscript Census (#35 in series)
- 0-88955-283-5 Northern Districts Industries, 1871: Index to Manuscript Census (#36 in series)



## INTRODUCTION TO THE CANIND71 DATABASE

The CANIND71 database is a machine-readable version of the original manuscript information for more than 45,000 industrial establishments counted in the first Census of Canada in 1871. This new source provides a wealth of information for the four provinces enumerated in 1871 -- New Brunswick, Nova Scotia, Ontario and Quebec. The 1871 census was the first to be taken on a consistent basis for the four provinces. Although similar information was collected in the Canadian censuses of 1881, 1891, 1901 and 1911, the manuscript schedules for industry have not survived. The 1871 census manuscripts are thus the only systematic source for industrial activity that survives in such detail from the nineteenth century. Moreover, the 1871 schedules contain a great deal of information that was never published at the time.

In using the CANIND71 data, we should understand the definitions and procedures used by the 1871 census enumerators:<sup>3</sup>

- \* Industrial businesses found by the census enumerators as they made their rounds in early April 1871 were included, and details were recorded of their operations during the preceding twelve months.
- \* An industrial establishment was defined as "a place where one or several people are employed in manufacturing, altering, making up or changing from one shape into another, materials for sale, use or consumption, quite irrespectively of the amount of capital employed or of the products turned out" (p. 138). No minimum value of output was set, in contrast to the United States censuses in the same period, for which only establishments with at least \$500 worth were included.
- \* All repairs, mending or custom work were understood to be industrial products. Thus the definition of industrial activity was considerably broader than it would be in the twentieth century.
- \* Numbers of workers or "employés" were defined to be the average number of persons actually working in the industrial establishment during the 12-month reporting period, and could consist entirely of members of the proprietor's family. The industrial workforce was subdivided by age and gender into men, women, boys (males under 16 years) and girls (females under 16 years), but the amount of wages paid to each age-gender group of worker was not separately stated.
- \* Industrial establishments were recorded in the geographical units -- District, Sub-District or Division -- in which they were found "and nowhere else. The principle is essential in every case. The production is attached to the locality" (p. 139).
- \* In reporting custom work such as tailoring or work done on toll such as that of some grist mills or carding mills, enumerators were told to state the real value of raw materials, even if these amounts did not pass through the accounts of the proprietor.

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<sup>3</sup> "Manual Containing the Census Act and Instructions to Officers Employed in Taking of the First Census of Canada, 1871," Canada Sessional Papers No. 64 (1871). Quotations are from this source.

\* Though enumerators could specify the types, quantities and values of individual raw materials and products for each establishment, it was foreseen that in most cases only the aggregate dollar values or raw materials and products would be stated.

\* Values of fixed capital and floating capital invested in the industrial business were distinguished rather than merged, and the number of working months was specified.

Only a very limited amount of the information collected in Schedule 6 of the 1871 census was published in the official census volumes of the 1870s.<sup>4</sup> The statistical tables published at the time used various industrial types that were defined pragmatically rather than systematically, and then listed in alphabetical order. For each industry type, whether as specialized as whip making or as ubiquitous as blacksmithing, figures were published for numbers of establishments, hands employed, yearly wages, value of raw materials and value of products in each of 206 Census Districts.

No industrial data at all were published for smaller areal units such as the Census Sub-Districts, either as summaries of total industrial activity or for specific types of industry. Thus the only 1871 industrial information published for urban centres was for the six cities, the boundaries of which exactly coincided with those of one or more Census Districts. These were Montreal, Toronto, Hamilton, Ottawa, London and Kingston. Some information collected by the enumerators was never compiled into published tables, notably for types and horse-power units of inanimate power, months of operation during the reporting period, and "floating" capital distinguished from "fixed" capital. The published totals also understated the real extent and value of industrial activity as these can now be reconstituted from the manuscript census schedules.<sup>5</sup>

### Database Variables

The CANIND71 database has made machine-readable information about all the industrial firms counted in Canada's first national census. For each establishment, there are up to 125 variables. The firms were located in 206 Census Districts and over 1600 Census Sub-Districts in Ontario, Quebec, New Brunswick and Nova Scotia. All details recorded by the enumerators on the manuscript census schedules have been included as basic variables in the CANIND71 database. These are: name of proprietor, kind of industrial business, geographical location, use of non-manual forms of power, numbers of workers (distinguished into men, women, boys and girls), number of working months in the year, and the dollar amounts of fixed and floating capital invested, wages, raw materials and products, as well as kinds, quantities, units of measurement and values of individual raw materials and products, and additional remarks or comments.

In addition to the information transcribed from the census manuscripts, the CANIND71 database contains several variables derived by calculation or inference from the basic variables. These include the total values of raw materials or of products

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<sup>4</sup> Census of Canada 1871, volume III, Tables 28-55.

<sup>5</sup> For a more detailed discussion of the 1871 Census procedures and a comparison of the published and manuscript data for industry in 1871, see Creating CANIND71: Procedures for Making the 1871 Census Machine-Readable (Research Report 4, 1989).



(when only details for component products or materials had been stated on the manuscript schedules), the value added (gross value of output less costs of raw materials when both these figures were reported), the total number of employees, and the average monthly wage per employee.

### **Geographical Organization**

The original descriptions of geographical areas defined for the 1871 Census were researched to ensure that the codes and place names were entered accurately and consistently into the database. For ease in returning to the original schedules, we adopted the same code letters and numbers that were used in 1871 to describe the Census Districts, Census Sub-Districts and Census Enumerators' Divisions. The 206 Census Districts were intended to correspond with the Electoral Districts defined under the British North America Act 1867.<sup>6</sup> Census Districts were divided into 1,701 Census Sub-Districts, which were intended to correspond with Municipal or other recognized divisions -- towns, villages, townships or city wards in Ontario, for example. The Census Sub-Districts were subdivided into nearly 3,000 Census Enumerators' Divisions, but these were defined for convenience of census-taking rather than to coincide with any other system of defining areas and no maps or written descriptions of these units have survived.<sup>7</sup>

Details of Census District name (with variable name CDISTRIC) and number (CDID), Census Sub-District name (CSD) and Census Enumerator's Division (CED) were coded for each manuscript record as it was entered into the CANIND71 database. Usually this information was written by the census enumerators on the manuscript schedules. But we had to standardize the names and codes for computer processing. We numbered the Census Districts in the same sequence from 001: Essex in southwest Ontario to 206: Richmond, Nova Scotia. Census district numbers in Ontario were prefaced with the letter O. We also adopted the same code letters and numbers that were used to describe the smaller Census Sub-Districts and Census Enumerators' Divisions in 1871. Municipal status was abbreviated as V-Village, T-Town (or Ville), C-City and Tp-Township. In the case of CSDs with the same principal name, they are distinguished by the directional abbreviations following the place name, such as N for North or Nord, S for South or Sud, E for East or Est, W for West.

### **Industrial Classification**

The census enumerators used natural language to describe the kinds of establishment and industrial raw materials and products they encountered.<sup>8</sup> In creating the CANIND71 database, we entered the enumerators' words into the computer record, but we also assigned standardized codes to each record to denote industry types and major groups more precisely and consistently. These codes are vital for analysis of the data.

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<sup>6</sup> Statutes of Canada, 33 Vict. 1870, Cap. 21, s. 4.

<sup>7</sup> See G.T. Bloomfield, Boundaries of Canadian Census Units in 1871 (CANIND71 Research Report 10, 1990).

<sup>8</sup> See Glossary of Industrial Language (CANIND71 Research Report 5, 1989) and French-English Dictionary of Industrial Language (CANIND71 Research Report 6, 1989).



Each record in the CANIND71 database has been assigned a code according to the 1970 Standard Industrial Classification Manual of the Canada Dominion Bureau of Statistics.<sup>9</sup> Understandably, there were some problems in applying a 1970 classification to the conditions of a century earlier. Changes in technology have eliminated some industry types that were common in 1871. The more rudimentary level of economic and business organization in 1871 meant that many enterprises combined industrial activities that would typically be separated in specialized businesses by 1970. Repair of all kinds of goods and equipment was more integrally associated with manufacture in 1871.

The appropriate SIC code for each record was determined by study of both the stated kind of establishment and the actual products and raw materials reported in each case. Wherever possible, we chose the SIC code that best matched the actual outputs of the business as reported for the year ending March 31, 1871. The "kind of establishment" information alone could be quite misleading, as this term was sometimes an occupational label that did not really describe the actual products. For example, a business might be described very generally as a "foundry", which would rate a code of "294" only if its products were primarily iron castings. More typically, the products of so-called foundries in 1871 were fabricated metal products such as stoves (307-S) or general machinery (315) or agricultural implements (311). In another example, one who was by trade a blacksmith and so recorded in the "kind of establishment" column may have had opportunities to make all kinds of metal goods, often including carriages and wagons. If he made definite numbers of carriages or other items of transportation equipment, his business would be assigned the appropriate and more specific SIC code of "329" rather than "896" which would be assigned for a blacksmith engaged only in "country work and repairs".

We adapted the 1970 system to the 1871 context in two main ways. First, suffixes of hyphen and capital letter could be added to the basic 3-digit code to give greater specificity, a brewery (109-B) being distinguished from a distillery (109-D) for example. Second, an establishment that combined two or more products or services was given a compound SIC code, consisting of the two most important linked by a slash (/), so that a flour mill-cum-distillery is represented as "105/109-D".

These elaborations of the basic classification system resulted in a total list of over 700 specific codes that were used to describe the 45,070 firms in the four provinces in 1871. A few of these codes were shared by large numbers of establishments. Thus 5,254 blacksmiths were assigned the SIC code of "896", 5,088 saw mills had the basic code of "251", and 4,189 shoemakers were coded "174". Some 2,830 handloom weavers were given the code "182-W", 2,527 carriage and wagon makers were coded "329", and 2,098 flour mills share the code "105". Basic SIC codes assigned to at least 50 industrial establishments throughout Canada are listed in Table 1. At the other extreme, some significant enterprises had codes that were unique for Canada.

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<sup>9</sup> For a more detailed discussion of our use of SIC codes, see G.T. Bloomfield, Standard Industrial Classifications Applied to Historical Data (CANIND71 Research Report 7, 1989). The CANIND71 classification is based on Dominion Bureau of Statistics, Standard Industrial Classification Manual (Ottawa, 1970); for French-language equivalents we consulted Statistique Canada, Classification type des industries (Ottawa, 1990).

Table 1  
**STANDARD INDUSTRIAL CLASSIFICATION (1970) ADAPTED FOR 1871:**  
 short list of codes with at least 50 occurrences in CANIND71 database

101-P	Pork Curing/Packing	Salaison de porc
102	Fish Curing	Salaison de poisson
104	Cheese Factories	Fromageries
105	Flour/Grist Mill	Farine, Moulin à
105-O	Oatmeal Mill	Avoine, Moulin d'
107	Bakeries	Boulangeries
108-C	Confectionery	Confiserie
109-B	Brewery	Brasserie
109-S	Aerated Water	Eaux gazeuses
153	Tobacco Working	Tabac, Manufacture d
172	Tanneries	Tanneries
174	Boots/Shoes	Bottes/Souliers
179-S	Saddle/Harness Making	Selles]
182	Woolen Cloth Factories	Drap, Fabriques de
182-W	Weaver	Tisserand
189-W	Carding/Fulling Mills	Carder/fouler, Moulins à
239-K	Stockings/Mittens/Hand Knitter	Bas/Mitaines/Tricoteur
242	Clothing	Habillements
243	Tailors/Clothiers	Habillements pour hommes
246	Furrier/Hatter	Pelleterie/Chapellerie
249-M	Milliner	Modiste
251	Saw Mill	Moulin à scie
251-S	Shingle Making	Bardeaux, Confection de
254	Sashes/Doors/Blinds	Portes/Fenêtres
256	Basket Making	Vanneries
259	Wood Products, Misc	Produits de bois, divers
259-C	Cooperage	Tonnellerie
259-W	Wood Turning Establishments	Tours à bois
261	Cabinets/Furniture	Meublerie
286	Printing office	Imprimerie
287-B	Book Binding	Reliure
289	Printing/Publishing incl newspapers	Imprimerie/Publication de
294	Foundry/Castings	Fonderie/Fonte
304-T	Tinsmith	Ferblantier
306	Agricultural Hand Tools	Outils agricoles manuels
306-T	Axes	Haches
307-S	Stoves	Poêles
309	Metal Fabricating, Misc	Fabrication de métaux
311	Agricultural Implements	Instruments aratoires
315	Machinery, Misc	Machinerie/Équipement
315-H	Spinning Wheels	Rouets
315-P	Pumps	Pompes
327	Ship Yards	Navires, Construction de
327-M	Ship Material	Appareux de navire
328	Boat Building	Chaloupes, Construction
329	Carriage Making	Carrosserie
329-P	Wheels (* and other parts)	Roues
351-B	Brick/Tile Making	Briqueterie/Tuilerie
351-P	Pottery	Poterie
353	Stone/Marble Establishments	Marbrerie
358-L	Lime Kilns	Fours à chaux
365	Oil Refineries	Épuration de l'huile
374	Drugs	Drogues
376	Soap/Candle Making	Savonneries/Chandelleries
378-P	Pot/Pearl Asheries	Potasseries
392	Jeweler/Watchmaker	Bijoutier/Horloger
421-C	Carpenter/Joiner (buildings)	Charpentier (bâtiments)
421-D	Painter/Glazier	Peintre en bâtiments
893	Photographic galleries	Photographies
896	Blacksmithing	Forges

The SIC codes were generalized into the 26 Major Industry Groups (or SECs) that were also coded for each record (Table 2). This table also reflects the inclusion by the 1871 census enumerators of a wider range of industrial activities and processes than would be defined as manufacturing industry today. Eighty-six per cent of the establishments are classified in the Major Group 5 for Manufacturing Industry, with SIC codes between 101 and 399, accounting for 95 per cent of the total value of industrial output in 1871.

Table 2  
STANDARD INDUSTRIAL CLASSIFICATION:  
MAJOR GROUPS AND SIC CODES

Major Group SEC	SIC codes
Division 1 Agricultural Services	021-029
Division 2 Forestry	031-039
Division 3 Fishing	041-049
Division 4 Mines, Salt Wells etc	051-099
<b>Division 5 Manufacturing Industries</b>	
5.01 Food and Beverages	101-109
5.02 Tobacco Products	151-159
5.04 Leather Industries	171-179
5.05 Textile Industries	181-189
5.06 Knitting Mills	231-239
5.07 Clothing Industries	241-249
5.08 Wood Industries	251-259
5.09 Furniture Industries	261-269
5.10 Paper Industries	271-279
5.11 Printing and Publishing	281-289
5.12 Primary Metal Industries	291-299
5.13 Metal Fabricating	301-309
5.14 Machinery Industries	311-319
5.15 Transportation Equipment	321-329
5.17 Non-metallic Minerals	351-359
5.18 Petroleum & Coal Products	361-369
5.19 Chemical Industries	371-379
5.20 Miscellaneous Manufactg	391-399
Division 6 Construction Industry	401-499
Division 7 Gas and Water Utilities	572-579
Division 8 Trade (incl repair)	601-699
Division 10 Personal/business services	861-899

Using the SIC and geographical codes, data for individual establishments can be aggregated in all sorts of ways. In the sample records and tables presented in this report, we use the same variable names as in the CANIND71 database. They are explained in Table 3.



Table 3  
VARIABLE NAMES IN CANIND71 DATABASE

Abbreviated code names for variables in the CANIND71 database are used in various tables in this report. A brief explanation of each code name follows:

AVWAGE:	Average monthly wage per worker in a firm, place or type of industry.
CDID:	Census district number used in 1871 census.
CDISTRIC:	Census district name used in 1871 census.
CED:	Census enumerator's division, a small part of a census district.
COMMENTS:	Additional remarks or comments for a firm entered in manuscript schedule.
EMPBOY:	Boys (males under 16 years) employed in industrial activity.
EMPGIRL:	Girls employed (females under 16 years) in industrial activity.
EMPMEN:	Men (males over 16 years) employed in industrial activity.
EMPWOM:	Women (females over 16 years) employed in industrial activity.
FIXCAP:	Value of fixed capital reported by proprietors.
FLOCAP:	Value of floating or working capital reported by proprietors.
FORCE:	Units (in "horse power" equivalents) of non-manual power reported by proprietors.
MONTH:	Number of working months in year.
OBSERV:	Observation, unit or record in a database; in the case of CANIND71 means individual industrial establishment.
PROD1:	Named type of product, first to Nth, as numbered.
PROPRIOR:	Name of proprietor as stated in census schedules.
PQUANT1:	Quantity of named product, first to Nth, as numbered.
PUNIT1:	Unit of measurement of named product, first to Nth, as numbered.
PVALUE1:	Value of named product, first to Nth, as numbered.
RAWMAT1:	Named type of raw material, first to Nth, as numbered.
RQUANT1:	Quantity of named raw material, first to Nth, as numbered.
RUNIT1:	Unit of measurement of named raw material, first to Nth, as numbered.
RVALUE1:	Value of named raw material, first to Nth, as numbered.
SEC:	Major industry group, derived from combinations of SIC codes.
SIC:	Standard Industrial Classification.
SUMPROC:	Value of industrial production (\$).
SUMRAWC:	Value of raw materials used in industry (\$).
TOTEMP:	Total number of employees, the sum of EMPMEN, EMPWOM, EMPBOY and EMPGIRL.
TYPEEST:	Type of establishment as stated by enumerator in census schedules.
TYPEPOW:	Type of power reported: steam, water, horse, W/S (water/steam).
VADD:	Value added in manufacturing (\$) = production \$ - raw materials \$.
WAGES:	Wages paid to industrial workers (\$).

## ACKNOWLEDGEMENTS

Between 1982 and 1990, the CANIND71 Project based in the Department of Geography of the University of Guelph, computerized the full data for some 45,000 industrial establishments that were enumerated in Canada's first national census in 1871. We appreciate the shelter and support provided to the project by the Department of Geography. Creation and documentation of the CANIND71 database were substantially assisted by several grants from the Social Sciences and Humanities Research Council of Canada between 1985 and 1989. The most substantial of these were Grants 482-87-0010 and 482-88-0010 to Elizabeth Bloomfield as principal investigator. In a new phase of the project, computer method, led by Gerald Bloomfield and supported by SSHRCC funds, computer methods of mapping the historical data are being developed.

The interest and support of all who have assisted with this project are gratefully acknowledged. Janine Grant, Barbara Sibley, Jane Turner, Jane Darch and Stephen Bellinger worked for the project for significant periods, and the quality of the final database owes much to their careful and thorough work. Peter McCaskell, first as programmer-analyst in the Department of Geography and then from the University's Computing Services, played an essential role in database management and programming through all phases of the project. Mario Finoro, chief technician of the Department of Geography, has assisted in the acquisition, setting up and maintenance of the equipment. The computer maps in this series are the work of Larry Laliberté, while the graphs of industrial structure were produced in final form by Marie Puddister.

Elizabeth and Gerald Bloomfield

## KENT COUNTY INDUSTRIES, 1871

A little later in its development than other counties along Lake Erie to the east, Kent County had a mean rural population density of only 36 persons per square mile in 1871 (compared with densities over 60 p.s.m. in York and Wentworth Counties). Its rural population would peak in 1891. The Great Western Railway crossed the centre of the county, linking it with London to the northeast and Windsor in the southwest.

The county's mean value of industrial production per capita (\$48.93) was lower than the mean for Ontario (\$74.00). The county average value of output per establishment was also somewhat lower than the provincial mean -- \$4,570 compared with \$5,516. However, the scale of operation in Kent County industrial establishments was similar, with an average 4.1 employees per industrial establishment, compared with 4.4 in Ontario as a whole. Altogether, Kent County has a well-balanced mix of industry types with remarkable development of middle-sized workplaces with 6-25 workers as well as some slightly larger factories in urban centres.<sup>10</sup>

### Census and Municipal Units

Census Districts were defined to match federal electoral districts rather than counties in 1871. However, the component Sub-Districts matched the smaller municipal units of townships, towns, villages or city wards. Kent County was divided between the two Census Districts of Kent (with six townships and the town of Chatham which was also the county seat) and Bothwell (including four townships and the town of Bothwell).

The Census Sub-Districts of Kent County are shown in Figure 1 and their basic statistics of area (sq mls), population (pop), industrial establishments (est) and industrial employees (empl) are set out in Table 4.

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<sup>10</sup> A full bibliography of the historical development of industry in each community cannot be given here, but Lauriston's history of the county considers industry among many other topics:

Lauriston, Victor, Romantic Kent, More Than Three Centuries of History, 1626-1952 (Chatham: County of Kent and City of Chatham, 1952).

The information contained in this report about proprietors of industrial establishments in 1871 may be related to the valuable index of all household heads provided in Index to the 1871 Census of Ontario: Essex-Kent (Toronto: Ontario Genealogical Society, 1989).



Table 4  
KENT COUNTY: CENSUS DISTRICTS AND SUB-DISTRICTS, 1871

			sq mls	pop	est	empl
** CENSUS DISTRICT 0002: KENT						
0002	A	ROMNEY TOWNSHIP	41.26	711	3	15
0002	B	TILBURY E TOWNSHIP	83.83	1846	42	64
0002	C	RALEIGH TOWNSHIP	114.44	4081	15	35
0002	D	HARWICH TOWNSHIP	149.81	5974	47	173
0002	E	DOVER TOWNSHIP	107.58	3315	16	79
0002	F	CHATHAM TOWNSHIP	144.23	5036	37	146
0002	G	CHATHAM TOWN	2.63	5873	96	731
** Subtotal **			643.78	26836	256	1243
** CENSUS DISTRICT 0003: BOTHWELL						
0003	A	HOWARD TOWNSHIP	93.39	4512	46	157
0003	B	ORFORD TOWNSHIP	84.47	3113	22	74
0003	C	CAMDEN W TOWNSHIP	87.19	4095	74	192
0003	D	ZONE TOWNSHIP	38.70	1083	5	17
0003	E	BOTHWELL TOWN	3.36	995	32	98

While larger enterprises were usually located in incorporated urban centres, industry was also dispersed in smaller villages and hamlets. The census manuscript schedules do not specify location in such smaller, unincorporated centres but it can be useful when comparing the census data with information from other sources to know which hamlets and villages were included in particular Census Sub-Districts. Among the larger unincorporated villages were Dresden (about 1,000 people), Blenheim (850), Morpeth (600) and Wallaceburg (600). Kent County's central places are listed in Table 5.<sup>11</sup>

#### Location and Distribution

Of the total county population of 40,634, only 17 per cent lived in the county town of Chatham (5,873 population), or the town of Bothwell (995). These two urban centres accounted for over half the county's industrial output though neither was highly industrialized. Under eight per cent of Chatham's population were employed in industry and under 10 per cent of Bothwell's. In an analysis of all Ontario urban centres, those in Kent County were found to rank well below the Ontario mean for level of industrialization and to lack any industrial specialization or leading enterprise.<sup>12</sup>

<sup>11</sup> For a more detailed discussion of the location of smaller villages and hamlets in relation to the 1871 Census units, see G.T. Bloomfield, Ontario Central Places in 1871: A Gazetteer Compiled from Contemporary Sources (CANIND71 Research Report 13, 1990).

<sup>12</sup> For analysis of the urban concentration of industry and of differences between specific urban centres, see Elizabeth Bloomfield and G.T. Bloomfield, The Ontario Urban System at the Onset of the Industrial Era (CANIND71 Research Report 3, 1989).

<u>Place</u>	<u>Population</u>	<u>Township</u>	<u>CSD</u>	<u>Sources</u>	<u>Lat.</u>	<u>Long.</u>
BENTLEY	10	Harwich	2D	D L P	42 21	81 55
<i>post office formerly called Guilford (C), later Guilds (C)</i>						
BLENHEIM	850	Harwich	2D	D L	42 20	82 00
<i>post office at Rondeau</i>						
BOTANY	10	Howard	3A	D L P	42 29	81 59
BOTHWELL	995	Bothwell T	3E	D L B	42 38	81 52
BUCKHORN 1	75	Harwich	2D	D L P	42 17	82 02
<i>post office later Cedar Springs; on boundary with Raleigh Tp</i>						
BUXTON	100	Raleigh	2C	D L P	42 16	82 11
<i>post office later Ouvrey then Buxton again</i>						
CHARING CROSS	150	Raleigh	2C	L P	42 20	82 06
<i>formerly Cook's Corners; on boundary with Harwich Tp</i>						
CHATHAM	5873	Chatham T	2G	D L B	42 24	82 11
CLEARVILLE	150	Orford	3B	D L M	42 28	81 43
<i>post office formerly Orford</i>						
COOK'S CORNERS	.	Harwich	2D	D	42 20	82 06
<i>later Charing Cross</i>						
CROTON 1	.	Camden W	3C	D P	42 37	82 03
<i>formerly Johnston's Corners (C)</i>						
DARRELL	10	Chatham Tp	2F	L P	42 29	82 11
<i>also known as Scotch Settlement</i>						
DAWN MILLS	75	Camden W	3C	D L P	42 35	82 08
<i>formerly Taylor's Mills</i>						
DEALTOWN	150	Raleigh	2C	D L P	42 13	82 10
DOVER SOUTH	100	Dover	2E	D L P	42 29	82 19
<i>also known as Paincourt</i>						
DRESDEN	1000	Camden W	3C	D L M	42 35	82 11
<i>formerly Fairport; incorporated as village in 1871</i>						
DUART	200	Orford	3B	D L M	42 30	81 45
EDGEWORTH	50	Tilbury E	2B	L P	42 15	82 25
FAIRFIELD	.	Harwich	2D	D P	42 23	81 54
<i>post office of Troy; post office also known as West Troy, Ridley; on boundary with Howard Tp</i>						
HARWICH	100	Harwich	2D	D L P	42 27	82 00
<i>also known as Harwichville, McKay's Corners; on boundary with Howard Tp</i>						
HIGHGATE	70	Orford	3B	L P	42 30	81 49
HOWARD	.	Howard	3A	D	42 28	81 55
KEITH	.	Chatham Tp	2F	P	42 36	82 16
<i>later Tupperville</i>						
KENT BRIDGE	50	Camden W	3C	D L P	42 31	82 04
<i>formerly Whitehall; on boundary with Chatham Tp</i>						
LOUISVILLE	100	Chatham Tp	2F	D L P	42 28	82 07
MERLIN	75	Raleigh	2C	L P	42 14	82 14
<i>formerly Smith's Corners; on boundary with East Tilbury Tp</i>						
MORPETH	600	Howard	3A	D L B	42 23	81 51
<i>formerly Antrim Port (C2), Howard (C), Jamesville, Lee's Corner (C2), The Red Store (C2)</i>						

OLD MONTROSE	10	Romney	2A	L P	42 09 82 27
OUNGAH	10	Chatham Tp	2F	D L P	42 29 82 17
<i>on boundary with Dover Tp</i> RIDGETOWN	500	Howard	3A	D L M	42 26 81 54
ROMNEY	20	Romney	2A	L P	42 08 82 22
RONDEAU	.	Harwich	2D	D M	42 19 81 51
<i>post office for Blenheim</i> RONDEAU HARBOR	150	Harwich	2D	D L P	42 17 81 53
<i>later Shrewsbury</i> SELTON	50	Howard	3A	D L P	42 30 81 57
<i>formerly Ostrander</i> THAMESVILLE	500	Camden W	3C	D L M	42 33 81 59
<i>formerly Tecumseh (L); incorporated as village in 1873</i> TILBURY EAST	.	Tilbury E	2B	D M	42 16 82 26
<i>formerly Smith's Mills (C); later Stewart</i> TROY 1	150	Harwich	2D	L	42 23 81 54
<i>post office at Fairfield; formerly Troy Mills; on boundary with Howard Tp</i> VALETTA	75	Tilbury E	2B	D L P	42 15 82 20
WALLACEBURG	600	Chatham Tp	2F	D L B	42 36 82 23

Note: Lat = Latitude; Long. = Longitude.

Three primary sources were used to generate this list of places for 1871:

R.G. Dun and Co.'s Mercantile Agency Reference Book (D);

Lovell's Canadian Dominion Directory for 1871 (L);

Canadian Almanac and Repository of Useful Knowledge 1871 (P for ordinary post office, M for post office that could issue money orders, B for post office with savings bank function).

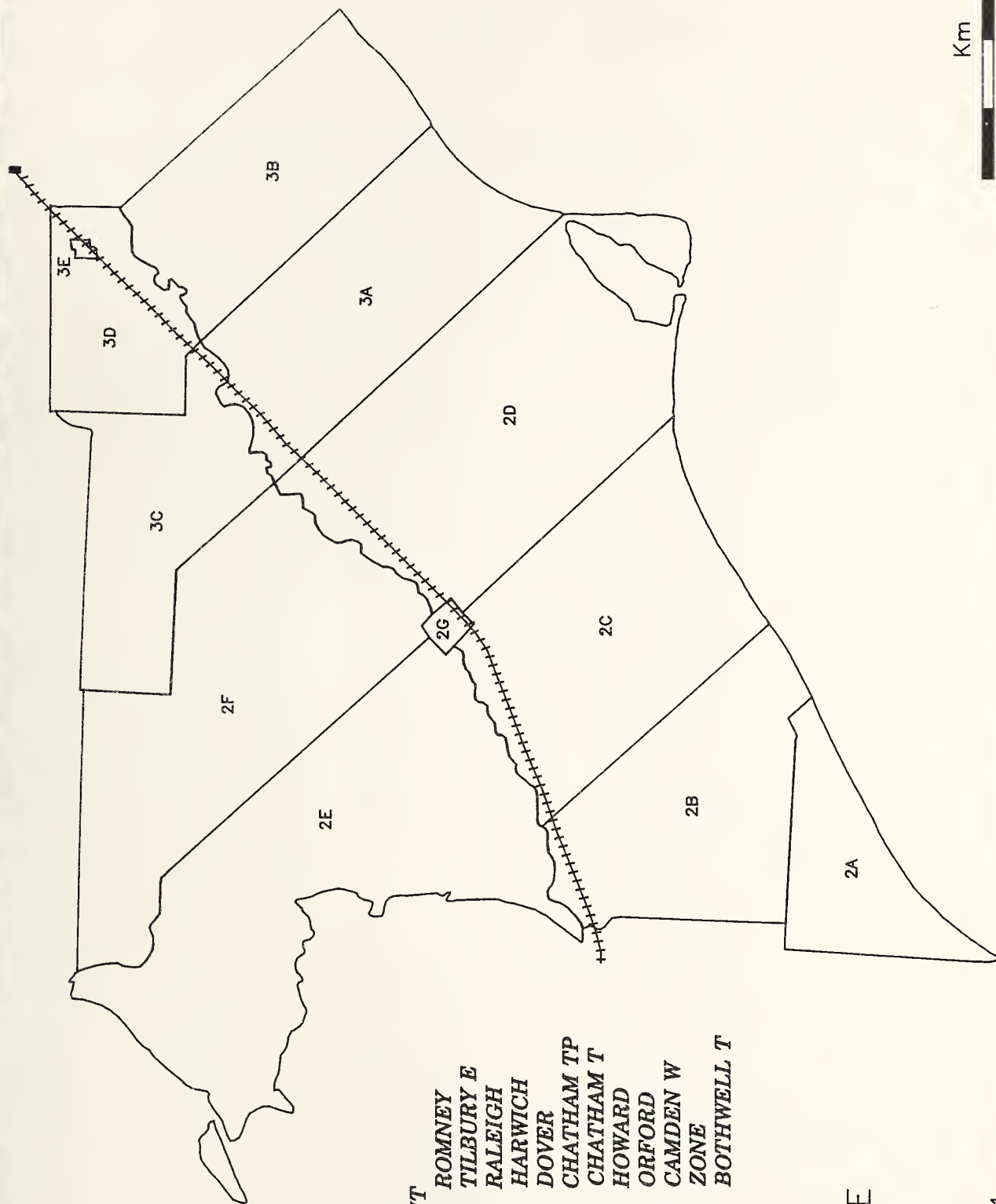
## Industry Types

Using the Standard Industrial Classification (SIC) code of each record and the more generalized Major Industry Group (SEC), it is possible to describe and compare the industrial structures of places from whole provinces to local townships and villages. In coding all the industrial establishments of Kent County, 59 different basic SIC codes (including suffixes, but trimming compounds) are used (Table A-3). In all of Ontario, a total of 172 such codes are used, and 196 in all of Canada.

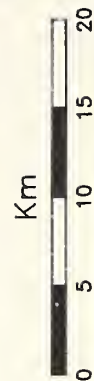
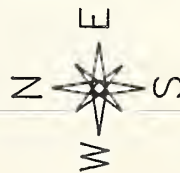
When the industrial structure of Kent County is compared with that of the whole province, we find that several sectors were distinctively stronger in the county than generally in the province. The diagram overpage has been designed to show these differences as clearly as possible, using major industry groups (SECs in the database). Kent County was most remarkable for the strength of wood processing, furniture, machinery, non-metallic minerals and chemicals, while leather products, textiles, clothing and metal fabricating were relatively weak. The diagram also illustrates the industrial structure of Chatham separately, showing the relative strength of food and beverages, furniture, machinery, transportation equipment and construction -- sectors which employed in Chatham at least 1.5 times their average share of the industrial workforce across Ontario.



# KENT COUNTY

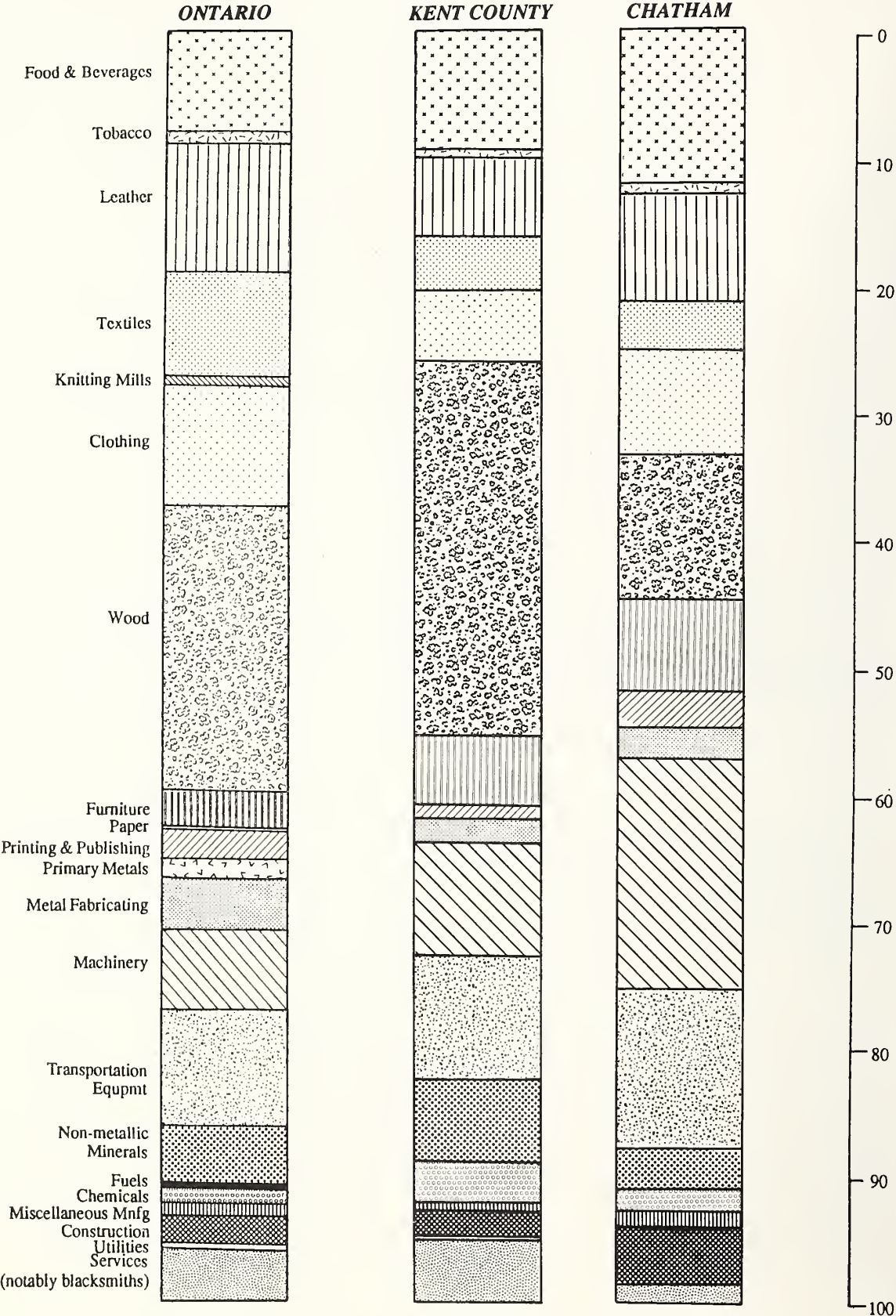


- KENT**  
**2A ROMNEY**  
**2B TILBURY E**  
**2C RALEIGH**  
**2D HARWICH**  
**2E DOVER**  
**2F CHATHAM TP**  
**2G CHATHAM T**  
**3A HOWARD**  
**3B ORFORD**  
**3C CAMDEN W**  
**3D ZONE**  
**3E BOTHWELL T**



CANIND71

COMPARATIVE INDUSTRIAL STRUCTURES: Percentages Employed in Major Industry Groups (SECs)



## Size of Establishment

Most establishments in Kent County were very small craftshops -- blacksmiths, tinsmiths, bakers, saddlers, shoemakers, tailors, milliners, weavers and knitters, coopers, carpenters, carriage and wagon makers. Seventy-eight per cent of its workplaces in the county had five or fewer workers, but this was less than the share of small workplaces in Ontario generally. Middle-sized establishments were remarkably strong in Kent County with more than one in five reporting between 6 and 25 employees each. No businesses were reported to employ over 50 workers. However, Hyslop and Ronald of Chatham operated a steam engine factory employing 42, a ship building yard employing 40 and an implement factory employing 20, reporting these three enterprises separately. Also in Chatham were Dalgarno and Parkinson's foundry and boiler works with 39 workers, William Gray's wagon shop with 33, Robert Smith's cabinet shop with 34, and James Lamont's pork curing establishment with 30. Daniel Van Allan operated a sawmill in Chatham Township with 33 workers.

Table 6  
6a. ONTARIO INDUSTRIAL ESTABLISHMENTS, 1871  
BY FIRM SIZE OR NUMBERS OF EMPLOYEES PER FIRM

Firm size # employees	Establishments % total	Employment % total	Production % total	Value Added % total
<u>small</u>				
1	39.8	9.0	6.1	6.2
2 - 5	45.3	28.5	29.9	25.7
<u>medium</u>				
6 - 50	14.1	40.1	44.2	44.6
<u>large</u>				
50+	0.8	22.4	19.8	23.5
TOTALS	100.0	100.0	100.0	100.0

6b: KENT COUNTY INDUSTRIAL ESTABLISHMENTS, 1871  
BY FIRM SIZE OR NUMBERS OF EMPLOYEES PER FIRM

Firm size # employees	Establishments % total	Employment % total	Production % total	Value Added % total
<u>small</u>				
1	36.5	8.6	6.7	7.1
2 - 5	42.3	29.7	34.3	29.1
<u>medium</u>				
6 - 25	19.5	47.4	46.1	48.8
26 - 50	1.6	14.2	12.9	14.9
TOTALS	100.0	100.0	100.0	100.0



Many industrial establishments had small values of production as well: nearly three in ten of Kent County's units produced less than \$500 worth of industrial output, a larger share of small producers than in Ontario as a whole. These small firms accounted for under 1.5 per cent of the total value of production. At the other extreme, the top 15 enterprises reporting more than \$25,000 worth of output each in 1871 accounted for just one third of Kent County's total production. The full manuscript details for the nineteen county businesses that either employed more than 25 workers or reported output worth over \$25,000 are reproduced here as sample records. No Kent enterprises ranked among Canada's industrial leaders in 1871, calculated as those in the top one per cent of Canadian firms in all four measures of number of employees, value of fixed capital investment, gross value of production and value added in manufacturing.<sup>13</sup>

### **Power Technology**

Just one in four of the industrial firms in Kent County in April 1871 reported using inanimate power other than the power of human workers or draft animals. But such firms were disproportionately important in employment, investment and production. Enterprises using waterwheels and especially steam engines employed more than one in two of all industrial workers, reported more than 70 per cent of fixed capital invested in industry and accounted for over 64 per cent the value of industrial production.<sup>14</sup>

Like Essex, Kent County was remarkable for its virtual lack of water-powered industrial activity. Over 60 per cent of its output was supported by steam engines, compared with a mean of 36 per cent across Ontario. Table A-5 lists all establishments reporting water or steam power of at least 15 horsepower capacity. Almost all used steam, with only two using waterwheels and two others water-power boosted by steam.

### **Work Environments**

The CANIND71 database provides a snapshot of the transition from artisanal craftshops to factories using machinery and integrated work processes. A useful concept in understanding this transition is the **work environment**, which combines measures of the size of the workplace with the extent to which non-manual power was used in the industrial process. Powered and non-powered work environments are classified as to the size of their workforces, in four size classes: 1-5 workers, 6-25 workers, 26-50 workers, and 51 or more workers. Powered establishments with at least 26 workers are called **factories**, while **manufactories** are non-powered workplaces with at least 26 workers. Smaller powered establishments are called **mills** if they had from 6 to 25 workers, **powered craftshops** if they had 5 or fewer workers.

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<sup>13</sup> See Elizabeth Bloomfield and G.T. Bloomfield, Patterns of Canadian Industry in 1871: An Overview Based on the First Census of Canada (CANIND71 Research Report 12, 1990) and Industrial Leaders: The Largest Manufacturing Firms (CANIND71 Research Report 8, 1990).

<sup>14</sup> See G.T. Bloomfield, Water Wheels and Steam Engines: Powered Establishments of Ontario (CANIND71 Research Report 2, 1989).

# SAMPLE CANIND71 RECORDS

17

proprior: HUGHSON ROBERT		typeest: GRIST/FLOUR MILL	refnum: 447
cdid: 0002	ced: D-3	cdistric: KENT	csd: HARNICH
sec: 5.01	sic: 105	month: 12	prop:
fixcap: 5000	flocap: 2000	typepow: STEAM	force: 30
empmen: 2	empwom: .	empboy: .	empgirl: .
totemp: 2	wages: 500	avwage: 20.83 per worker/month	
sumrawc: 30000		sumproc: 35000	vadd: 5000
rawmat1: GRAIN/CUSTOM GRINDING	runit1: BU	rquant1: 30000	rvalue1: 30000
prod1: FLOUR/MEAL/FEED	punit1:	pquant1: .	pvalue1: 35000
comments: CUSTOM WORK			
proprior: MCRAE WILLIAM		typeest: GRIST MILL	refnum: 513
cdid: 0002	ced: F-3	cdistric: KENT	csd: CHATHAM TP
sec: 5.01	sic: 105	month: 12	prop:
fixcap: 7000	flocap: 2000	typepow: STEAM	force: 30
empmen: 3	empwom: .	empboy: .	empgirl: .
totemp: 3	wages: 1200	avwage: 33.33 per worker/month	
sumrawc: 30000		sumproc: 37860	vadd: 7860
rawmat1: GRAIN,WHEAT	runit1: BU	rquant1: 24000	rvalue1: 27000
rawmat2: GRAIN,OAT,CORN,BARLEY,BUCKWHEAT,/PEAS/CUSTOM WORK			
	runit2: BU	rquant2: 6000	rvalue2: 3000
prod1: FLOUR	punit1: LB	pquant1: 1000000	pvalue1: 30000
prod2: CHOP/FEED	punit2: LB	pquant2: 300000	pvalue2: 4500
prod3: CUSTOM WORK,WHEAT	punit3: BU	pquant3: 24000	pvalue3: 3000
prod4: CUSTOM WORK,OTHER GRAIN	punit4: BU	pquant4: 6000	pvalue4: 360
comments: THIS MILL GRINDS 60000 BUSHELS OF GRAIN AS IS SHOWN			
proprior: LOWE ROBERT & CO		typeest: GRIST MILL	refnum: 616
cdid: 0002	ced: G-2	cdistric: KENT	csd: CHATHAM T
sec: 5.01	sic: 105	month: 12	prop:
fixcap: 16000	flocap: 25000	typepow: STEAM	force: .
empmen: 9	empwom: .	empboy: .	empgirl: .
totemp: 9	wages: 4000	avwage: 37.04 per worker/month	
sumrawc: 45000		sumproc: 60000	vadd: 15000
rawmat1: GRAIN,WHEAT,CORN,BARLEY	runit1:	rquant1: 45000	rvalue1: 45000
prod1: FLOUR/MEAL/FEED	punit1: BBL	pquant1: 10000	pvalue1: 60000
comments: BUSINESS IS GOING UNSATISFACTORILY			
proprior: BAXTER & BROWN		typeest: GRIST MILL	refnum: 596
cdid: 0002	ced: G-2	cdistric: KENT	csd: CHATHAM T
sec: 5.01	sic: 105	month: 12	prop:
fixcap: 12000	flocap: 8000	typepow: STEAM	force: 30
empmen: 5	empwom: .	empboy: .	empgirl: .
totemp: 5	wages: 2400	avwage: 40.00 per worker/month	
sumrawc: 22000		sumproc: 27000	vadd: 5000
rawmat1: GRAIN,WHEAT,OAT,CORN,BARLEY,BUCKWHEAT,MILLET/PEAS			
runit1: BU		rquant1: 45000	rvalue1: 22000
prod1: FLOUR/FEED	punit1:	pquant1: 9000	pvalue1: 27000

# SAMPLE CANIND71 RECORDS

18

proprior:	ROBINSON	BENJAMIN	typeest:	GRIST MILL	refnum:	697	
cdid:	0003	ced:	C-1	cdistric:	BOTHWELL	csd:	CAMDEN W
sec:	5.01	sic:	105	month:	12	prop:	
fixcap:	3000	flocap:	800	typepow:	STEAM	force:	20
empmen:	3	empwom:	.	empboy:	.	empgirl:	.
totemp:	3	wages:	950	avwage:	26.39 per worker/month		
sumrawc:	25000			sumproc:	28000	vadd:	3000
rawmat1:	GRAIN	runit1:	BU	rquant1:	30000	rvalue1:	25000
prod1:	FLOUR	punit1:	LB	pquant1:	120000	pvalue1:	28000

proprior:	LAMONT &	SCAMAN	typeest:	GRIST MILL	refnum:	731	
cdid:	0003	ced:	C-2	cdistric:	BOTHWELL	csd:	CAMDEN W
sec:	5.01	sic:	105	month:	12	prop:	
fixcap:	2700	flocap:	42800	typepow:	STEAM	force:	30
empmen:	4	empwom:	.	empboy:	.	empgirl:	.
totemp:	4	wages:	2000	avwage:	41.67 per worker/month		
sumrawc:	41600			sumproc:	47840	vadd:	6240
rawmat1:	GRAIN,WHEAT	runit1:	BU	rquant1:	36400	rvalue1:	36400
rawmat2:	GRAIN,COURSE	runit2:	BU	rquant2:	10400	rvalue2:	5200
prod1:	FLOUR	punit1:	LB	pquant1:	1456000	pvalue1:	36400
prod2:	CHOP	punit2:	LB	pquant2:	520000	pvalue2:	7800
prod3:	BRAN/SHORTS	punit3:	LB	pquant3:	728000	pvalue3:	3640

proprior:	LAMONT	JAMES	typeest:	PORK CURING EST	refnum:	573	
cdid:	0002	ced:	G-1	cdistric:	KENT	csd:	CHATHAM T
sec:	5.01	sic:	101-P	month:	5	prop:	
fixcap:	1000	flocap:	100000	typepow:		force:	.
empmen:	30	empwom:	.	empboy:	.	empgirl:	.
totemp:	30	wages:	4730	avwage:	31.53 per worker/month		
sumrawc:	72553			sumproc:	84553	vadd:	12000
rawmat1:	PORK,FRESH	runit1:	LB	rquant1:	1092557	rvalue1:	72553
prod1:	PORK,THIN,MEDIUM,RUMP/HAMS/BACON/SHOULDERS					pvalue1:	84553

proprior:	RICHARDS/SUTHERLAND		typeest:	KENT BAKERY	refnum:	581	
cdid:	0002	ced:	G-1	cdistric:	KENT	csd:	CHATHAM T
sec:	5.01	sic:	107	month:	12	prop:	
fixcap:	10000	flocap:	10000	typepow:		force:	.
empmen:	13	empwom:	2	empboy:	.	empgirl:	.
totemp:	15	wages:	5580	avwage:	31.00 per worker/month		
sumrawc:	30200			sumproc:	46800	vadd:	16600
rawmat1:	FLOUR/SUGAR/BUTTER/LARD/FRUIT			rquant1:	.	rvalue1:	30200
prod1:	BREAD/BISCUITS/CRACKERS/CAKES/CONFECTIONERY			pquant1:	.	pvalue1:	46800



# SAMPLE CANIND71 RECORDS

19

proprior: TAYLOR & BRENNAGER typeest: CARDING/CLOTH PCY refnum: 592  
 cdid: 0002 ced: G-2 cdistric: KENT csd: CHATHAM T  
 sec: 5.05 sic: 189-W/182 month: 12 prop:  
 fixcap: 30000 floccap: 10000 typepow: STEAM force: .  
 empmen: 12 empwom: 7 empboy: 5 empgirl: .  
 totemp: 24 wages: 5613 avwage: 19.49 per worker/month  
 sumrawc: 28280 sumproc: 42345 vadd: 14065  
 rawmat1: WOOL runit1: LB rquant1: 88377 rvalue1: 28280  
 prod1: WOOL,CARDED punit1: LB pquant1: 25884 pvalue1: 1294  
 prod2: WOOL,SPUN punit2: LB pquant2: 10860 pvalue2: 1629  
 prod3: WOOL,LOCK YARN punit3: LB pquant3: 2500 pvalue3: 500  
 prod4: CLOTH,WOOL punit4: LB pquant4: 30000 pvalue4: 9900  
 prod5: WOOL SOLD FOR OTHER PURPOSES punit5: LB pquant5: 17133 pvalue5: 342  
 prod6: WOOL ON HAND punit6: LB pquant6: 2000 pvalue6: 400  
 comments: WHOLE PROFITS OF FACTORY - \$14065, EXPENSES - \$8071, NET PROFIT - \$5994; 88377 LBS OF WOOL AT 32 CTS VALUE AT 28280; GROSS PROFITS TO WHICH ADD FIRST COST OF WOOL

proprior: PATTERSON WILLIAM typeest: SAW/GRIST MILL refnum: 511  
 cdid: 0002 ced: F-3 cdistric: KENT csd: CHATHAM TP  
 sec: 5.08 sic: 251/105 month: 12 prop:  
 fixcap: 25000 floccap: 10000 typepow: STEAM force: 50  
 empmen: 12 empwom: . empboy: . empgirl: .  
 totemp: 12 wages: 5628 avwage: 39.08 per worker/month  
 sumrawc: 24500 sumproc: 40000 vadd: 15500  
 rawmat1: LOGS/TIMBER runit1: rquant1: . rvalue1: 19500  
 rawmat2: GRAIN,WHEAT runit2: BU rquant2: 4000 rvalue2: 5000  
 prod1: LUMBER,SHIP,SQUARE punit1: FT pquant1: 2900000 pvalue1: 30000  
 prod2: FLOUR/FEED punit2: pquant2: 160000 pvalue2: 10000

proprior: VAN ALLEN DANIEL R & CO typeest: SAW MILL refnum: 495  
 cdid: 0002 ced: F-1 cdistric: KENT csd: CHATHAM TP  
 sec: 5.08 sic: 251 month: 7 prop:  
 fixcap: 12000 floccap: 20000 typepow: STEAM force: 75  
 empmen: 35 empwom: . empboy: . empgirl: .  
 totemp: 35 wages: 10000 avwage: 40.82 per worker/month  
 sumrawc: 18400 sumproc: 39663 vadd: 21263  
 rawmat1: LOGS,WHITE WOOD,OAK,WALNUT,ASH rquant1: 37244 rvalue1: 18400  
 prod1: LUMBER punit1: FT BM pquant1: 3800000 pvalue1: 39663

proprior: TRERICE & CO typeest: SAW MILL refnum: 733  
 cdid: 0003 ced: C-2 cdistric: BOTHWELL csd: CAMDEN W  
 sec: 5.08 sic: 251 month: 8 prop:  
 fixcap: 6000 floccap: 15000 typepow: STEAM force: 40  
 empmen: 16 empwom: . empboy: . empgirl: .  
 totemp: 16 wages: 3840 avwage: 30.00 per worker/month  
 sumrawc: 15000 sumproc: 30000 vadd: 15000  
 rawmat1: LOGS runit1: PIECE rquant1: 25000 rvalue1: 15000  
 prod1: LUMBER,HARDWOOD punit1: FT pquant1: 2500000 pvalue1: 30000  
 comments: ABOUT 1/2 SOLD AT YARD AND OTHER 1/2 SOLD IN AMERICAN MARKET

# SAMPLE CANIND71 RECORDS

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proprior: DAY	D P W	typeest: SAW MILL	refnum: 807
cdid: 0003	ced: F-1	cdistric: BOWENELL	csd: SOMBRA
sec: 5.08	sic: 251	month: 9	prop:
fixcap: 6000	flocap: 15000	typepow: STEAM	force: 20
empmen: 12	empwom: .	empboy: .	empgirl: .
totemp: 12	wages: 3000	avwage: 27.78 per worker/month	
sumrawc: 100000		sumproc: 250000	vadd: 150000
rawmat1: LOGS	runit1:	rquant1: 10000	rvalue1: 100000
prod1: LUMBER	punit1:	pquant1: 1500000	pvalue1: 250000

proprior: KINNEY	LEWIS	typeest: PLANING MILL/SASH/DOOR FY	refnum: 454
cdid: 0002	ced: D-3	cdistric: KENT	csd: HARNICH
sec: 5.08	sic: 254	month: 12	prop:
fixcap: 4000	flocap: 4000	typepow: STEAM	force: 20
empmen: 16	empwom: .	empboy: 1	empgirl: .
totemp: 17	wages: 1100	avwage: 5.39 per worker/month	
sumrawc: 50000		sumproc: 58000	vadd: 8000
rawmat1: LUMBER	runit1:	rquant1: 450000	rvalue1: 50000
prod1: SASHES/DOORS/BUILDING MATERIALS/LUMBER,DRESSED			pvalue1: 58000

proprior: SMITH	ROBERT D	typeest: CABINET SHOP	refnum: 570
cdid: 0002	ced: G-1	cdistric: KENT	csd: CHATHAM T
sec: 5.09	sic: 261	month: 12	prop:
fixcap: 10000	flocap: 5000	typepow: STEAM	force: 16
empmen: 33	empwom: 1	empboy: .	empgirl: .
totemp: 34	wages: 8300	avwage: 20.34 per worker/month	
sumrawc: 3125		sumproc: 15220	vadd: 12095
rawmat1: LUMBER,BLACK WALNUT,WHITE WALNUT,CHERRY,SYCAMORE,ELM,RED OAK,MAPLE		rquant1: 77000	rvalue1: 1925
runit1: FT			rvalue2: 1200
rawmat2: PAINT/VARNISH/OIL/CASTORS/HAIRCLOTH/CARPET/HAIR/MOSS/SPRINGS			
prod1: SIDEBOARDS/SOPAS/CHAIRS,PARLOR/WASHSTANDS/BURRAUS/BEDSTEADS/CUPBOARDS/ORGAN CASES/COFFINS			pvalue1: 15220

proprior: DALGARN & PARKINSON & CO		typeest: FOUNDRY/BOILER WORKS	refnum: 565
cdid: 0002	ced: G-1	cdistric: KENT	csd: CHATHAM T
sec: 5.14	sic: 315-E/301	month: 12	prop:
fixcap: 4000	flocap: 25000	typepow: STEAM	force: 30
empmen: 36	empwom: .	empboy: .	empgirl: 3
totemp: 39	wages: 12000	avwage: 25.64 per worker/month	
sumrawc: 2500		sumproc: 25000	vadd: 22500
rawmat1: IRON,PIG	runit1: TON	rquant1: 75	rvalue1: 2500
prod1: ENGINES/BOILERS/MACHINERY,SAW MILL,GRIST MILL			pvalue1: 25000

# SAMPLE CANIND71 RECORDS

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## ENGINEERING ESTABLISHMENTS IN CHATHAM

proprior: GRAY	WILLIAM	typeest: WAGON SHOP	refnum: 557
cdid: 0002	ced: G-1	cdistric: KENT	csd: CHATHAM T
sec: 5.15	sic: 329	month: 12	prop:
fixcap: 4000	flocap: 8000	typepow: STEAM	force: 16
empmen: 33	empwom: .	empboy: .	empgirl: .
totemp: 33	wages: 7616	avwage: 19.23 per worker/month	
sumrawc: 3380		sumproc: 11345	vadd: 7965
rawmat1: LUMBER, ASSORTED	runit1: FT	rquant1: 14000	rvalue1: 1580
rawmat2: IRON	runit2: TON	rquant2: 15	rvalue2: 1200
rawmat3: OIL/PAINT	runit3:	rquant3: .	rvalue3: 600
prod1: CARRIAGES/BUGGIES	punit1:	pquant1: 75	pvalue1: .
prod2: WAGONS	punit2:	pquant2: 70	pvalue2: .
prod3: CUTTERS	punit3:	pquant3: 30	pvalue3: .
prod4: SLEIGHS	punit4:	pquant4: 40	pvalue4: .

proprior: HYSLOP & RONALD		typeest: STEAM ENGINE FACTORY	refnum: 600
cdid: 0002	ced: G-2	cdistric: KENT	csd: CHATHAM T
sec: 5.14	sic: 315-E	month: 12	prop:
fixcap: 15000	flocap: 10000	typepow: STEAM	force: 50
empmen: 40	empwom: .	empboy: 2	empgirl: .
totemp: 42	wages: 18000	avwage: 35.71 per worker/month	
sumrawc: 6000		sumproc: 50000	vadd: 44000
rawmat1: IRON, PIG, BAR	runit1: TON	rquant1: 150	rvalue1: .
rawmat2: LUMBER	runit2:	rquant2: .	rvalue2: .
prod1: ENGINES, STEAM	punit1:	pquant1: 10	pvalue1: 50000
comments: THE SAME ENGINE DRIVES BOTH ESTABLISHMENTS; THE BUSINESS OF THIS ESTABLISHMENT IS INCREASING RAPIDLY			

proprior: HYSLOP & RONALD		typeest: SHIP BUILDING YARD	refnum: 602
cdid: 0002	ced: G-2	cdistric: KENT	csd: CHATHAM T
sec: 5.15	sic: 327	month: 12	prop:
fixcap: 3000	flocap: 30000	typepow: STEAM	force: 10
empmen: 40	empwom: .	empboy: .	empgirl: .
totemp: 40	wages: 18000	avwage: 37.50 per worker/month	
sumrawc: 15000		sumproc: 30000	vadd: 15000
rawmat1: IRON, PIG, BAR/LUMBER	runit1:	rquant1: .	rvalue1: 15000
prod1: STEAM PROPELLER	punit1:	pquant1: 1	pvalue1: 30000
comments: THE WAGES AND VALUE OF RAW MATERIAL ARE INTENDED TO COVER A WHOLE YEAR; THE PROPELLER IS THE BUILDING			



Workplaces using only hand or horse power are called **artisans' craftshops** if they employed 5 or fewer. Slightly larger craftshops, without water or steam power and employing between 6 and 25 workers, have been called **sweatshops** in the context of a large city. **Outworkers**, who toiled at home under the putting-out system, would be included with the artisans' craftshops, from which it is hard to distinguish them on census manuscript evidence alone.<sup>15</sup> We note that the terms used to describe the eight types of work environment do not necessarily match contemporary usage in 1871, when factories, manufactories and shops were generic terms used interchangeably for all sizes of establishment. Our transcription of the natural language used by the census enumerators allows readers to note this terminology in the (TYPEEST) Type of Establishment data in the Appendix tables of this report.

		USE OF POWER			
		non-powered (hand/horse only)		powered by water or steam	
SIZE OF WORKFORCE	51+	MANUFACTORIES (larger)		FACTORIES (larger)	51+
	26-50	MANUFACTORIES (smaller)		FACTORIES (smaller)	26-50
	6-25	SWEATSHOPS and larger CRAFTSHOPS		MILLS	6-25
	1-5	ARTISANS' CRAFTSHOPS		POWERED WORKSHOPS, smaller MILLS	1-5
		non-powered (hand/horse only)		powered by water or steam	

<sup>15</sup> For more discussion of this concept see Patterns of Canadian Industry in 1871 (Report 12) and Elizabeth Bloomfield and G.T. Bloomfield, Canadian Women in Workshops, Mills and Factories: The Evidence of the 1871 Census Manuscripts (CANIND71 Research Report 11, 1991).

Table 7  
DISTRIBUTION OF WORKERS IN WORK ENVIRONMENTS, 1871

Work Environment (# employees)	Rural Ontario	Urban Ontario	Rural Kent County	Urban Kent County
<b>Non-Powered</b>	%	%	%	%
Artisans (1-5 emp)	45.4	17.8	39.2	18.1
Sweatshops (6-25 emp)	5.8	20.2	8.6	27.9
Manufactories (26-50 emp)	0.3	4.8	-	3.6
Manufactories (>51 emp)	0.5	5.5	-	-
Sub-Total	52.0	48.3	47.8	49.6
<b>Powered</b>				
Small (1-5 emp)	15.8	3.2	12.5	4.9
Medium (6-25 emp)	19.6	13.0	36.0	22.8
Factories (26-50 emp)	5.4	8.3	3.7	22.7
Factories (>51 emp)	7.2	27.2	-	-
Sub-Total	48.0	51.7	52.2	50.4
<b>TOTAL</b>	100.0	100.0	100.0	100.0

How significant were the various work environments in Kent County in 1871? Table 7 reflects the slightly greater use of inanimate power in Kent County and the larger share of middle-sized workplaces employing between 6 and 25 in rural areas, between 6 and 50 in Chatham.

Very few women or girls were employed in the industrial workplaces of Kent County; they formed only 6 per cent of the total workforce, considerably less than their mean share of the industrial labour force across Ontario. Table A-6 lists the 26 workplaces that each reported at least two female workers. Typically, most of these are in the clothing and textile sectors and half were in the urban centres.

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### Appendix Tables

This county report presents several kinds of tabulations which are briefly introduced here. In understanding the abbreviated code names of database variables, users are referred to Table 3 on page 7, for the Standard Industrial Classification codes to Table 1 on page 5, and for the Major Industry Groups to Table 2 on page 6.

**Table A-1: Kent County: Geographical Summary of Firms, 1871**

Summary data for each Census Sub-District (CSD), including horse-power units of non-manual power, value of fixed and floating capital, numbers of employees (men, women, boys, girls and total), annual wages paid, costs of raw materials, gross value of production, value added in manufacturing, and number of establishments. Data are totalled for each Census District (or part thereof) in the county, and totalled for the whole county. See Figure 1 for a map of CSDs and pp. 9-12 for discussion of the distribution of industrial activity.

**Table A-2: Kent County: Industrial Structure, 1871**

Summary data for each Major Industry Group, including numbers and percentages of establishments, horse-power units, value of fixed capital, total employment, gross value of production, and value added in manufacturing. See Figure 2 for diagrammatic representations for the employment structure by Major Industry Groups of Kent County and Chatham in relation to the structure for all of Ontario in 1871.

**Table A-3: Basic SIC codes for Kent County, 1871**

Summary data for each Standard Industrial Classification type (including code suffixes but trimming compounds). For discussion of SIC types, see pp. 4-5 and p. 12.

**Table A-4: Listings of Individual Establishments, Ranked by Value of Output, for Various SIC Types, 1871**

Data for flour mills; bakeries; beverages; saddleries; boot and shoe makers; textile mills and weavers; clothing and millinery shops; sawmills and wood processing; furniture shops; machinery producers; carriage and wagon makers; chemical industries; construction trades; and blacksmiths.

**Table A-5: Kent County: Firms Using Inanimate Power, 1871**

Data for individual establishments reporting at least 15 horsepower units of water or steam power, ranked by horsepower units.

**Table A-6: Kent County: Firms Employing at least Two Females in 1871**

Data for individual establishments, ranked by number of women and girls employed. Note use of FEMALE (total number of women and girls employed) as variable in this table only.

**Table A-7: Kent County: Firms by Name of Proprietor, 1871**

Data for individual establishments in alphabetical order of proprietor's name.

**Table A-8: Urban Centres: Firms by Name of Proprietor, 1871**

Data for individual establishments in alphabetical order of proprietor's name - Chatham, Bothwell.



KENT COUNTY: GEOGRAPHICAL SUMMARY OF FIRMS, 1871

CDID	CED	CSD	FORCE	FIXCAP	FLOCAP	EMPMEN	EMPWOM	EMPBOY	EMPGIRL	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD	OBSERV
O002	A	ROMNEY	55	4503	250	15	.	.	.	15	1704	1700	5743	3368	3
O002	B	TILBURY E	80	11566	5468	53	3	6	2	64	8499	17775	24748	6973	42
O002	C	RALEIGH	55	6985	10580	31	.	4	.	35	4545	25997	32120	5853	15
O002	D	HARWICH	288	49875	43979	152	6	14	1	173	27909	119516	186921	67405	47
O002	E	DOVER	73	13045	6150	65	1	13	.	79	11463	7198	37486	30366	16
O002	F	CHATHAM TP	273	63820	43600	135	8	3	.	146	38470	106707	189717	79878	37
O002	G	CHATHAM T	524	274890	374790	647	46	30	8	731	237645	479890	932710	452320	96
O002			1348	424684	484817	1098	64	70	11	1243	330235	758783	1409445	646163	256
O003	A	HOWARD	320	59992	20861	132	6	18	1	157	26997	63092	124274	59442	46
O003	B	ORFORD	94	26200	28547	66	1	7	.	74	19317	36131	70278	34147	22
O003	C	CAMDEN W	297	42100	102454	169	14	9	.	192	45683	162342	263753	100966	74
O003	D	ZONE	13	3750	4600	14	1	2	.	17	3390	3165	11076	7911	5
O003	E	BOTHWELL T	138	34975	20975	75	12	11	.	98	19890	55405	109528	54123	32
O003			862	167017	177437	456	34	47	1	538	115277	320135	578909	256589	179
O003			2210	591701	662254	1554	98	117	12	1781	445512	1078918	1988354	902752	435

## KENT COUNTY: MAJOR INDUSTRY GROUPS, 1871

	OBSERV		FORCE		FIXCAP		TOTEMP		SUMPROC		VADD	
	SUM	PERC- ENT	SUM	PERC- ENT	SUM	PERC- ENT	SUM	PERC- ENT	SUM	PERC- ENT	SUM	PERC- ENT
SEC												
4	1	0.2			500	0.1	1	0.1	1500	0.1		
5.01	38	8.7	416	18.8	108575	18.3	148	8.3	580757	29.2	122048	13.5
5.02	1	0.2			1500	0.3	6	0.3	4500	0.2	3500	0.4
5.04	48	11.0	46	2.1	22915	3.9	121	6.8	112493	5.7	67297	7.5
5.05	9	2.1	82	3.7	55565	9.4	72	4.0	71163	3.6	27183	3.0
5.07	34	7.8			9045	1.5	103	5.8	94624	4.8	41149	4.6
5.08	80	18.4	1320	59.7	194360	32.8	533	29.9	548719	27.6	251007	27.8
5.09	19	4.4	47	2.1	20780	3.5	93	5.2	52570	2.6	41781	4.6
5.11	4	0.9			15500	2.6	24	1.3	13000	0.7	10300	1.1
5.12	1	0.2	10	0.5	200	0.0	4	0.2	700	0.0	310	0.0
5.13	11	2.5	8	0.4	38850	6.6	32	1.8	37640	1.9	20693	2.3
5.14	15	3.4	200	9.1	51440	8.7	159	8.9	157008	7.9	124468	13.8
5.15	32	7.4	40	1.8	30010	5.1	174	9.8	103960	5.2	66191	7.3
5.17	26	6.0	17	0.8	8445	1.4	112	6.3	52495	2.6	42235	4.7
5.18	2	0.5	14	0.6	4500	0.8	5	0.3	12180	0.6	8204	0.9
5.19	35	8.0	10	0.4	13786	2.3	55	3.1	51645	2.6	15800	1.8
5.2	5	1.1			1445	0.2	13	0.7	11810	0.6	9903	1.1
6	8	1.8			1780	0.3	39	2.2	33900	1.7	20668	2.3
8	2	0.5			250	0.0	3	0.2	1000	0.1	425	0.0
10	64	14.7			12255	2.1	84	4.7	46650	2.3	29590	3.3
ALL	435	100.0	2210	100.0	591701	100.0	1781	100.0	1988354	100.0	902752	100.0

BASIC SIC CODES FOR KENT COUNTY, 1871

SIC	OBSERV	FORCE	FIXCAP	FLOCAP	EMPMEN	EMPWOM	EMPBOY	EMPGIRL	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
061	1	.	500	500	1	0	0	.	1	200	.	1500	.
101-P	1	.	1000	10000	30	0	0	.	30	4730	72553	84553	12000
104	6	.	3850	1145	7	6	2	2	17	1614	5321	7118	1797
105	19	402	83400	99500	64	0	0	.	64	22299	335028	405898	70870
107	7	.	11125	12070	18	2	2	.	22	7540	36695	56953	20258
108-I	1	.	2000	1000	4	0	0	.	4	700	1600	1600	0
109-B	1	1	3000	4000	3	1	0	.	4	600	3500	8000	4500
109-C	1	1	200	100	1	0	2	.	3	300	112	135	23
109-D	1	12	2000	2000	1	0	0	.	1	150	3000	15000	12000
109-S	1	.	2000	500	3	0	0	.	3	500	1500	1500	600
153	1	.	1500	6000	6	0	0	.	6	1872	1000	4500	3500
172	5	46	9300	5880	13	0	0	.	13	4250	4575	13432	8857
174	29	.	5625	17830	71	0	2	.	73	22675	28164	52238	24074
179-S	14	.	7990	10784	31	0	4	.	35	10334	12457	34366	34366
182	14	62	20500	6200	18	12	8	1	39	3800	13360	26278	12918
182-W	2	.	65	50	1	4	0	.	5	220	840	1100	-40
189-W	3	20	35000	10200	16	7	5	.	28	5663	29480	43785	14305
242	5	.	600	1010	9	5	0	.	14	3160	7700	14100	6400
243	16	.	7110	8095	28	20	2	.	50	16050	33593	61626	27583
244	8	.	935	3000	0	28	0	5	33	3505	9400	16400	6500
246	1	.	50	100	1	0	0	.	1	300	200	300	100
249-M	4	.	350	720	0	5	0	.	5	650	800	2198	566
251	42	1070	157310	126054	352	3	23	.	378	81955	223105	401866	178761
251-S	12	76	5370	2310	25	0	13	1	39	3893	17546	14805	14805
254	6	107	17700	21000	46	0	4	.	50	11326	59960	85091	25131
258	1	.	200	100	2	0	0	.	2	900	1000	2000	1000
259	5	31	8400	15030	20	0	0	.	20	9700	5325	19100	13775
259-C	9	.	3310	3242	24	0	0	.	24	6626	17246	13085	13085
259-W	5	36	2070	50	19	0	1	.	20	4360	1160	5870	4450
261	19	47	20780	15933	88	1	4	.	93	23958	10949	52570	41781
286	1	.	1000	500	2	0	1	.	3	950	500	1500	1000
289	3	.	14500	5200	17	1	3	.	21	6000	2200	11500	9300
294	1	10	200	1000	4	0	0	.	4	626	390	700	310
301	1	.	30000	10000	10	0	0	.	10	5000	10000	20000	10000
304-T	7	.	4450	7275	15	0	2	.	17	4000	6427	14690	8263
308	2	8	2000	600	3	0	0	.	2	300	200	900	700
309	2	.	2400	600	3	0	0	.	3	1400	320	2050	1730
311	11	113	31700	29100	67	0	5	.	72	26790	22410	73308	50898
315-E	2	80	19000	35000	76	0	2	3	81	30000	8500	75000	66500
315-P	2	7	740	4050	5	0	1	.	6	1065	1630	8700	7070
327	1	10	3000	30000	40	0	0	.	40	18000	15000	30000	15000
329	29	26	26110	26225	128	0	2	.	130	35678	22357	72620	50263
329-P	2	4	900	340	4	0	0	.	4	1070	412	1340	928
351-B	13	16	5758	3665	72	2	15	.	89	8621	2516	34260	30477
351-P	1	1	92	56	1	0	0	.	1	200	300	600	300
353	5	.	860	1300	7	0	0	.	7	3127	4460	12880	8420
358-L	7	.	1735	2470	14	0	1	.	15	1790	1717	4755	3038
365	2	14	4500	5000	15	0	0	.	15	1674	3976	12180	8204
376	3	10	11100	4050	15	0	1	.	16	3600	32075	44200	12125
378-P	32	.	2686	3580	37	0	2	.	39	4718	3770	7445	3675
392	1	.	1000	1000	2	0	0	.	2	1500	500	3000	2500
399-B	3	.	245	185	3	0	2	.	5	460	207	810	603
399-P	1	.	200	400	6	0	0	.	6	2600	1200	8000	6800
421-C	4	.	1300	4100	22	0	3	.	25	9180	9700	24000	14300
421-D	4	.	480	1700	12	0	2	.	14	4996	3532	9900	6368
658	1	.	100	75	1	0	0	.	1	400	75	500	425
695	1	.	150	50	1	1	0	.	2	500	.	500	.
862	1	.	10	10	1	0	0	.	1	200	.	300	.
893	2	.	400	1020	3	0	0	.	3	1200	1127	3500	2373
896	61	.	11845	9300	77	0	3	.	80	16037	14738	42890	27217
	435	2210	591701	662254	1554	98	117	12	1781	445512	1078918	1988354	902752



## KENT COUNTY: FLOUR MILLS, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0002	G-2	LOWE ROBERT & CO	GRIST MILL	105	16000	STEAM	.	9	4000	45000	60000	15000
0003	C-2	LAMONT & SCAMAN	GRIST MILL	105	2700	STEAM	30	4	2000	41600	47840	6240
0002	F-3	MCRAE WILLIAM	GRIST MILL	105	7000	STEAM	30	3	1200	30000	37860	7860
0002	D-3	HUGHSON ROBERT	GRIST/FLOUR	105	5000	STEAM	30	2	500	30000	35000	5000
0003	C-1	ROBINSON BENJAMI	GRIST MILL	105	3000	STEAM	20	3	950	25000	28000	3000
0002	G-2	BAXTER & BROWN	GRIST MILL	105	12000	STEAM	30	5	2400	22000	27000	5000
0003	E	CHAMBERS R & CO	FLOUR MILL	105	3500	STEAM	20	2	750	22000	24500	2500
0003	A-2	SPRINGSTEEN JAMES	FLOUR MILL	105	3000	W/S	16	3	1080	15000	18080	3080
0002	G-2	HOLMES THOMAS	GRIST/FLOUR	105	4000	STEAM	40	4	1600	15000	18000	3000
0002	G-2	BENNETT THOMAS	GRIST MILL	105	500	STEAM	12	1	175	15000	18000	3000
0002	G-2	ROBERT FRANCES ?	GRIST MILL	105	4500	STEAM	15	3	800	15000	17400	2400
0002	G-2	ROBINSON FREDERIC	GRIST MILL	105	3000	STEAM	20	2	940	10000	15000	5000
0003	A-2	CAMPBELL ARCHIBA	GRIST MILL	105	3000	W/S	35	3	500	13500	14500	1000
0003	C-2	SMITH ALFRED	GRIST MILL	105	1200	WATER	18	1	320	12000	13250	1250
0002	B-1	SMITH JAMES	GRIST MILL	105	2000	STEAM	20	2	360	10128	11168	1040
0002	D-3	BISNETT ALFRED	GRIST MILL	105	5000	STEAM	30	10	3000	6000	10000	4000
0003	B-1	GIBSON & WRIGHT	GRIST MILL	105	1000	WATER	16	3	800	5000	6000	1000
0003	A-3	MOODY JOHN	GRIST MILL	105	5000	STEAM	20	2	624	2200	3500	1300
0002	F-2	LAMB JOHN W	FLOUR MILL	105	2000	STEAM	.	2	300	600	800	200
					83400		402	64	22299	335028	405898	70870

## KENT COUNTY: BAKERIES, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0002	G-1	RICHARDS/SUTHERLA	KENT BAKERY	107	10000		.	15	5580	30200	46800	16600
0003	E	GOULDING HENRY	BAKER SHOP	107	150		.	1	300	2400	3000	600
0003	C-2	MCVEY ROBERT	BAKERY	107	100		.	2	720	800	2000	1200
0002	D-3	SCRIBNER JOHN	BAKERY	107	50		.	0	.	1000	1500	500
0003	C-2	MOUNTEIR WILLIAM	BAKERY	107	100		.	2	400	900	1440	540
0002	F-3	SMITH CHARLES WM	BAKERY	107	700		.	1	240	771	1285	514
0002	F-3	SMITH JOHN L	BAKERY	107	25		.	1	300	624	928	304
					11125		0	22	7540	36695	56953	20258

## KENT COUNTY: BEVERAGE PRODUCERS, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0002	G-2	BENNETT THOMAS	DISTILLERY	109-D	2000	STEAM	12	1	150	3000	15000	12000
0002	G-2	GARNER JOHN	BREWERY	109-B	3000	HORSE	1	4	600	3500	8000	4500
0002	G-2	HORN JOHN A	GINGER BEER FACT	109-S	2000		.	3	500	900	1500	600
0002	B-2	CAUFIELD SOLOMON	CIDER MILL	109-C	200	HORSE	1	3	300	112	135	23
					7200		14	11	1550	7512	24635	17123

KENT COUNTY: SADDLERS, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0002	G-1	SMITH	SADDLE/HARNESS	S 179-S/179-T	4000			9	3600	1700	25000	23300
0002	G-1	JACQUES	HARNESS SHOP	179-S	1000			6	2000	2000	5000	3000
0002	G-2	MCINTOSH	SADDLE/HARNESS	F 179-S/179-T	1000			3	1000	2000	3770	1770
0002	F-3	FORHAN THOMAS	HARNESS SHOP	179-S/179-T	400			2	864	896	2688	1792
0003	C-1	LARSON RICHARD P	HARNESS SHOP	179-S	150			2	500	1320	2000	680
0003	E	EDWARD	HARNESS MAKING	179-S	400			1	300	800	1400	600
0003	A-3	BRITTON	HARNESS SHOP	179-S	400			2	150	700	1320	620
0003	A-3	SCHLANKER THOMAS	HARNESS SHOP	179-S	200			2	400	600	1200	600
0002	D-3	TEER	HARNESS SHOP	179-S	100			1	300	500	1000	500
0003	C-2	NELLES	HARNESS SHOP	179-S	20			1	320	584	1000	416
0003	B-2	BRITTON JAMES	HARNESSMAKER	179-S	50			3	150	500	800	300
0002	F-3	DARLING CORNELIUS	HARNESS SHOP	179-S	200			1	350	387	720	333
0003	C-2	KING WILLIAM	HARNESS SHOP	179-S	50			1	300	270	625	355
0002	C-4	GANTES EDWARD ?	HARNESS/SADDLE	S 179-S	20			1	100	200	300	100
					7990		0	35	10334	12457	46823	34366

KENT COUNTY: BOOTMAKERS, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0002	G-1	POILE	CHARLES BOOT/SHOE SHOP	174	75			8	3744	1440	8736	7296
0002	G-1	YOUNG	ALEXAND BOOT/SHOE SHOP	174	500			12	5475	6000	7000	1000
0003	C-2	WEBSTER WILLIAM	SHOE SHOP	174	100			3	1000	2940	5616	2676
0002	G-1	SAWERNAN WILLIAM	BOOT/SHOE SHOP	174	75			5	1820	5000	4430	-570
0003	C-2	FRANCIS WILLIAM	SHOE SHOP	174	200			3	1080	1500	3276	1776
0002	G-1	HIGGINS JAMES	BOOT/SHOE SHOP	174	100			6	2000	1000	3000	2000
0002	G-2	O'REILLY C P	BOOT/SHOE SHOP	174	2000			4	1300	1200	3000	1800
0002	F-3	MARTIN THEODOR	SHOE SHOP	174	200			3	620	1050	2400	1350
0002	F-3	BURGESS	SHOE SHOP	174	50			2	600	628	1700	1072
0002	G-1	FARREL	SHOE SHOP	174	75			3	900	1800	1500	-300
0003	B-2	REYCRUF JOSEPH ?	SHOEMAKER	174	50			3	700	500	1300	800
0003	C-1	ADAIR ROBERT	BOOT/SHOE SHOP	174	300			3	560	800	1300	500
0003	C-2	SLADE JOHN	SHOE SHOP	174	100			1	400	600	1000	400
0002	D-2	GEORGE THOMAS J	BOOTS/SHOES	174	155			1	300	500	850	350
0002	D-3	LABERDIE PETER	SHOEMAKER	174	100			1		400	800	400
0002	D-3	BENEDICT ARCHIBAL	SHOE SHOP	174	100			1		400	800	400
0003	E	CREE JOHN	SHOE SHOP	174	100			1	300	405	800	395
0003	E	MCLARDY	BOOT/SHOE SHOP	174	200			1	300	420	800	420
0003	E	HAWKINS JOHN	SHOE SHOP	174	100			1	300	390	800	410
0003	A-3	MCEWEN JAMES	SHOE SHOP	174	200			2	140	200	700	500
0002	C-4	SCOTT THOMAS	BOOT/SHOE SHOP	174	200			1	300	50	500	450
0002	D-4	BAIRD WILLIAM	SHOE SHOP	174	500			1		300	500	200
0003	C-1	EGLIN RICHARD	BOOT/SHOE SHOP	174	30			1	200	200	500	300
0003	C-1	DALING SIMEON ?	SHOE SHOP	174	10			1	200	240	320	80
0002	F-1	HARDY WILLIAM G	SHOE SHOP	174	40			1		100	240	140
0002	B-2	GRAY JAMES	SHOE SHOP	174	20			1	336	31	120	89
0002	C-4	HOOPER HARRY & JO	BOOT/SHOE SHOP	174	5			1	40	50	100	50
0002	E-1	TAYLOR FRANCIS	SHOEMAKER SHOP	174	30			1		30	90	60
0003	C-2	AGIN CORNELIUS ?	SHOE SHOP	174	10			1	60	30	60	30
					5625		0	73	22675	28164	52238	24074

## KENT COUNTY: TEXTILE MILLS AND WEAVERS, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0002	G-2	TAYLOR & BRENAGE	CARDING/CLOTH FC	189-W/182	30000	STEAM	.	24	5613	28280	42345	14065
0003	E	GORDON	CLOTH FCY/CARDIN	182/189-W	9000	STEAM	20	10	1500	4660	12000	7340
0002	D-3	WARNER ELI	WOOLEN FACTORY	182	300	STEAM	10	10	600	3000	6000	3000
0003	C-2	SMITH JAMES & SON	WOOLEN FACTORY	182	6200	STEAM	12	12	1000	4500	5528	1028
0003	A-3	MOODY JOHN	CLOTH FACTORY	182	5000	STEAM	20	7	700	1200	2750	1550
0003	C-1	ROBINSON BENJAMI	CARDING MILL	189-W	1000	STEAM	20	1	50	1200	1440	240
0002	G-2	CRAIG ROBERT	WEAVING LOOM	182-W	40	.	.	2	100	840	800	-40
0002	F-3	WALKER PERMELIA ?	WEAVE SP/DRESSMA	182-W/244	25	.	.	3	120	.	300	.
0002	G-2	BAXTER & BROWN	CARDING MACHINE	189-W	4000	STEAM	.	3	.	.	.	.
					55565		82	72	9683	43680	71163	27183

## KENT COUNTY: CLOTHING AND MILLINERY SHOPS, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0002	G-1	LAMONT H & M	TAILOR DEPARTMEN	243	5000	.	.	10	5500	7825	15840	8015
0002	G-1	RICHARDSON W & T	MERCHANT TAILOR	243	300	.	.	9	2800	7825	15840	8015
0002	G-1	HOAG WILLIAM & SO	MERCHANT TAILOR	243	500	.	.	8	2000	3500	8500	5000
0002	G-1	SMITH ISAAC	MERCHANT TAILOR	242	150	.	.	7	1500	5000	8000	3000
0002	G-2	COCKER ELLEN	MILLINERY EST	244	40	.	.	8	700	3000	6000	3000
0002	G-1	ROSS MISS	MILLINER SHOP	244/249-M	75	.	.	9	1500	2900	4500	1600
0002	F-3	AYRES WILLIAM	TAILOR SHOP	243	100	.	.	4	800	3525	4208	683
0002	G-1	DELOS LOUIS	TAILOR SHOP	242	50	.	.	2	900	2000	4000	2000
0002	G-1	PERNST BENJAMIN ?	TAILOR SHOP	243	50	.	.	2	600	2500	3500	1000
0003	C-1	HUTCH H & C	TAILOR/MENS	243	200	.	.	3	560	1400	2100	700
0003	E	LAUGHTON WILLIAM	MILLINER SHOP	244	50	.	.	2	500	1500	2000	500
0003	C-1	HYNES JAMES	TAILOR SHOP	243	50	.	.	1	300	1000	1500	500
0003	C-2	DRAGGO HENRY	TAILOR SHOP	243	100	.	.	2	600	700	1400	700
0003	C-2	DAVIS T W	TAILOR SHOP	243	300	.	.	1	240	600	1200	600
0003	E	CASHORE LOUIS	TAILOR SHOP	243	50	.	.	2	350	940	1200	260
0003	E	EVERY NOBLE H	TAILOR SHOP	243	100	.	.	1	300	840	1200	360
0003	E	THOMPSON ALEXAND	DRESSMAKING/MILL	244	500	.	.	4	250	700	1200	500
0003	E	PEACOCK GEORGE	TAILOR SHOP	243	150	.	.	1	300	658	1008	350
0002	D-3	WHARRAN FRANCIS	TAILOR SHOP	242	100	.	.	0	.	500	1000	500
0003	C-2	YOUNG MARGARET A	MILLINER SHOP	244/249-M	70	.	.	2	200	600	900	300
0003	E	SCOTT JOHN B	TAILOR SHOP	243	75	.	.	2	500	380	880	500
0002	F-3	DUNLOP CATHARINE	MILLINER/DRESSMA	249-M/244	50	.	.	2	250	.	832	.
0003	C-2	THOMPSON A V	TAILOR SHOP	243	100	.	.	1	300	400	800	400
0003	C-2	WELLS AMANDA	MILLINER SHOP	244	80	.	.	1	150	500	800	300
0003	C-2	WILLISTON MARGARE	MILLINER/DRESSMA	244/249-M	70	.	.	2	200	500	700	200
0003	A-3	SCHINDLER F X	TAILOR ESTABLISH	242	100	.	.	3	160	100	600	500
0003	E	DYER MARTHA	MILLINER SHOP	249-M	300	.	.	1	100	300	600	300
0002	D-3	MCMICHAEL MARATHA	MILLINER/DRESSMA	249-M/244	200	.	.	1	200	300	500	200
0002	F-1	GERNAY LEONARD	TAILOR SHOP	242	50	.	.	2	600	100	500	400
0002	G-1	COWAN FRANCES	MILLINERY SHOP	244	35	.	.	5	375	.	500	.
0002	F-3	CAROLAN JOHN D	TAILOR SHOP	243	50	.	.	1	400	.	450	.
0002	G-1	BENNET ERNEST	FURRIER SHOP	246	50	.	.	1	300	200	300	100
0003	C-1	LAWRENCE MARY	MILLINERY SHOP	249-M	.	.	.	1	100	200	266	66
					9045		0	103	23665	51693	94624	41149



CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0002	D-3	KINNEY LEWIS	PLANING/SASH/DOO	254	4000	STEAM	20	17	1100	50000	58000	8000
0002	F-3	PATTERSON WILLIAM	SAW/GRIST MILL	251/105	25000	STEAM	50	12	5628	24500	40000	15500
0002	F-1	VAN ALLEN DANIEL	SAW MILL	251	12000	STEAM	75	35	10000	18400	39663	21263
0003	C-2	TRECE & CO	SAW MILL	251	6000	STEAM	40	16	3840	15000	30000	15000
0002	G-1	NORTHWOOD JOSEPH	SAW MILL	251	8000	STEAM	45	24	6000	20000	25000	5000
0003	B-2	MCLEAN WILLIAM ?	SAW/PLANING MILL	251	9000	STEAM	20	5	1200	18000	25000	7000
0003	C-2	JOHNSTON JOHN H	SAW MILL	251	3000	STEAM	45	16	3760	11440	22880	11440
0002	C-1	MCKEILLER ARCH	SAW MILL	251	2000	STEAM	30	9	1625	20000	20000	0
0003	A-1	FERGUSON JOHN/ROB	SAW MILL	251	5000	STEAM	50	23	5500	9000	16800	7800
0002	F-3	CAROLAN THOMAS	SAW MILL	251/105	1500	STEAM	40	12	3168	7500	14400	2400
0003	C-1	SMITH ALFRED	SAW/GRIST MILL	251	3000	STEAM	20	12	4000	5000	14000	9000
0003	C-1	FERGUSON ROBERT	SAW MILL	251	10000	STEAM	30	13	3400	4000	12000	8000
0003	A-2	SWARTHANS ISAAC	SAW MILL	251	10000	STEAM	16	5	2500	2000	10000	8000
0002	D-3	FARELL ISAAC	SPADE HANDLE FCY	259	2500	STEAM	35	10	1800	4000	10000	6000
0002	F-1	BLACKBURN JOHN N	SAW MILL	251	2500	STEAM	35	10	1800	4000	10000	6000
0002	G-1	BLACKBURN JOHN	SAW MILL	251	3000	STEAM	20	10	4000	4000	9900	5900
0003	B-1	CUNNINGHAM JOHN	SAW MILL	251	4000	STEAM	25	8	1400	5000	9000	4000
0002	C-2	PARDON T L & W	SAW MILL	251	2000	STEAM	20	9	1400	3750	9000	5250
0002	D-1	PIKE & RICHARD	SAW MILL	251	4500	STEAM	35	12	5616	3500	8616	5616
0002	G-1	HADLEY SYLVEST	SASH/DOOR FACTOR	254	3000	STEAM	16	9	2500	3100	8250	5150
0002	G-2	SMALL & QUIRK	STAVE/SHINGLE/PU	251/315-P	5000	STEAM	20	8	2000	2000	8000	6000
0002	G-2	ALDIS SALEM ?	SAW MILL	251	4000	STEAM	10	12	1200	7500	7500	0
0002	F-1	GREENWOOD WILLIAM	PLANE STOCK FACT	251	600	STEAM	14	3	165	300	7500	7200
0002	G-2	LOWE & CO	COOPER SHOP	259-C	5000	STEAM	20	6	1500	2600	6650	4050
0003	A-3	CROUCH SAMUEL	SHINGLE MACHINE	251-S	3000	STEAM	28	5	1000	3000	6500	3500
0003	E	REID COLIN	PLANING/SASH/DOO	251	3000	STEAM	16	6	900	3000	5100	2100
0002	E-1	RAY WILLIAM	SAW MILL	251	2000	STEAM	15	16	4000	1000	5000	4000
0003	C-2	VIRGO & FRENCH	SASH/DOOR FACTOR	254	1000	STEAM	16	10	1476	1800	4580	2780
0002	D-3	BISSETT ALFRED	TURNING/SASH/DOO	259-W/254	1800	STEAM	10	5	1200	1800	4320	2520
0002	G-2	BAXTER JAMES	SASH/DOOR/BLIND	254	1800	STEAM	15	3	2000	2000	4000	2000
0002	B-3	GOSNEL JAMES	SAW MILL	251	2550	STEAM	16	10	1476	1800	4580	2780
0003	D-1	ROBERTS JOSEPH	SAW MILL	251	1000	STEAM	10	5	1200	1800	4320	2520
0002	D-3	ATKINSON WILLIAM	HANDLE MANUFACTO	259	2000	STEAM	14	6	1600	2000	4000	2000
0003	E	TIME HUGH ?	SAW MILL	251	4000	STEAM	40	7	2000	1500	3500	2000
0002	D-2	ARNOLD THADDEU	SAW MILL	251	300	HORSE	2	2	128	624	3150	2526
0003	A-3	WHITZELL JOSEPH	SHINGLE MACHINE	251-S	900	STEAM	25	5	416	764	3026	2262
0003	D-1	MILLER GEORGE	COOPER SHOP	259-C	1500	STEAM	25	6	768	900	3000	2100
0002	A	BELL CYRUS	SAW MILL	251	2500	STEAM	20	11	1000	1350	3000	1650
0002	E-1	CHERTRE JOSEPH	SAW MILL	251	1200	STEAM	20	4	1000	1000	3000	2000
0002	G-2	O'FLYNN PATRICK	COOPER SHOP	259-C	1000	WATER	15	4	700	1000	3000	2000
0003	B-1	CAMPBELL ARCHIBAL	SAW MILL	251	1900	STEAM	15	4	700	1000	3000	2000
0003	C-1	DUFFUS ROBERT	SAW MILL/STAVE F	251	5000	STEAM	40	4	600	900	2800	1900
0003	A-1	HOLMES HENRY	SAW MILL	251	2000	STEAM	20	3	1000	700	2800	2100
0003	B-2	WALKER JOHN	CARPENTER	259	3000	STEAM	20	5	625	2000	2660	660
0002	B-1	SMITH JAMES	SAW MILL	251	1500	WATER	10	2	200	600	2400	1800
0002	G-1	GARDINER JAMES	SAW MILL	251	1000	STEAM	10	2	200	1200	2400	1200
0003	E	CHAMBERS R & CO	STAVE FACTORY	251	1000	STEAM	16	6	700	500	2100	1600
0002	D-3	FENARY & FLATER	SHINGLE FACTORY	251-S	3000	STEAM	30	6	900	800	2068	1268
0002	A	BACKUS ELIZA	SAW MILL	251	1000	STEAM	16	5	650	447	2050	1603
0003	C-2	ANDERSON JAMES	SHINGLE MILL	251-S	1000	STEAM	16	5	650	447	2050	1603
0002	F-3	FISHER JOHN	UNDERTAKER/CARPE	258/421-C	200	STEAM	15	4	741	1000	2000	1000
0003	A-1	DUFFUS ROBERT	PLANING/SHINGLE	251/251-S	1960	STEAM	15	4	4000	1000	2000	1400
0003	B-2	MCLEAN D ?	CARPENTER	259	1500	STEAM	18	3	400	600	1500	900
0003	E	SUTHERLAND EBENEZ	BUILDER/CARPENTE	254	200	STEAM	10	3	2500	3000	1280	-720
0003	A-1	FERGUSON JOHN	SAW MILL	251	1800	STEAM	40	13	324	800	1200	400
0002	D-5	BRIGHTON ROBERT	SAW MILL	251	2000	STEAM	10	6	785	150	1145	995
0003	A-1	MCKAY ROBERT	SAW MILL	251	1600	STEAM	18	3	600	250	900	650
0002	B-2	SMITH THOMAS	SAW MILL	251	100	STEAM	100	2	300	142	900	758
0002	G-1	MORRIS JAMES	COOPER SHOP	259-C	250	STEAM	250	1	300	142	900	758
0003	C-1	RYCKMAN SAMUEL	COOPER SHOP	259-C	250	STEAM	250	1	300	142	900	758

KENT COUNTY: SAWMILLS AND WOOD PROCESSING, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0002	B-1	GARDNIR	SAW MILL	251	1300	STEAM	20	3	360	405	800	395
0003	C-2	JONES JACOB	COOPER SHOP	259-C	50			1	480	300	720	420
0002	G-1	ANDERSON LEVI	COOPER SHOP	259-C	100			2	450	100	650	550
0003	D-2	HARTWICK ISAAC	SHINGLE FACTORY	251-S	300	HORSE	1	3	300	200	650	450
0003	B-3	TAPS JAMES ?	SHINGLE FACTORY	251-S	300			2	196	200	548	348
0002	B-1	SMITH DAVID	SHINGLE FACTORY	251-S	160			2	250	160	500	340
0003	D-2	AVERY MACK	COOPER SHOP	259-C	50			1	300	75	400	325
0002	E-2	RANKIN ROBERT	BLACKSMITH FORGE	251-S	1500	STEAM	16	9	784	122	356	274
0002	E-1	JEVINS HENRY ?	CARPENTER SHOP	259	100			1	200	25	300	275
0003	E	WARD SILAS	TURNING SHOP	259-W		STEAM	20	1	100	60	300	240
0003	A-1	WHITSELL ALEXAND	SHINGLE FACTORY	251-S	100	HORSE	8	2	180	100	284	184
0003	C-2	WARD JAMES C	TURNING LATHE	259-W	50	STEAM	1	1	160		260	
0003	A-2	WOOD AMOS	SAW MILL	251	1000	WATER	1	2	180	60	240	180
0002	B-2	ASKEW ISAAC	SHINGLE FACTORY	251-S	30	HORSE	1	2	260	60	225	165
0003	C-1	YOUNG NELSON	TURNING LATHE	259-W	10			1	50	50	155	105
0003	C-1	YOUNG NELSON	TURNING LATHE	259-W	10			1	50	50	155	105
0002	B-1	RANKIN WILLIAM ?	COOPER SHOP	259-C	60			1	80	30	150	120
0002	F-1	PARKE REUBEN	SHINGLE FACTORY	251-S	50	HORSE	1	2	280	8	100	92
0002	D-2	ARNOLD SOLOMON	SHINGLE FACTORY	251-S	30	HORSE	1	1		20	83	63
0003	C-2	SMITH ALFRED	SAW MILL	251	1200	WATER	10	2	75	50	80	30
					194360				118760	297452	548719	251007
					1320				533			

KENT COUNTY: FURNITURE SHOPS, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0002	G-1	SMITH ROBERT	CABINET SHOP	261	10000	STEAM	16	34	8300	3125	15220	12095
0002	G-1	BRADY PATRICK	CABINET SHOP	261	2000			6	3000	550	6700	6150
0002	F-3	LALOND JOSEPH	CABINET SHOP	261	3000	STEAM	6	3	1500	1000	6000	5000
0002	G-1	JAHNKE ALBERT	CABINET SHOP	261	3000	STEAM	12	15	3000	1900	6000	4100
0003	A-3	COLMAN WALTER	CABINET FACTORY	261	600			6	1000	120	2000	1880
0002	D-3	MEREDITH JOSEPH	CABINET SHOP	261	300			0		1000	1500	500
0003	C-2	ARNOLD SAMUEL	CABINET SHOP	261	400			2	700	500	1400	900
0003	C-1	WILSON JOSEPH F	CABINET SHOP	261	100			2	800	125	1200	1075
0003	C-1	PODLISKE JOSEPH	CABINET SHOP	261	280			1	468	176	1000	872
0003	C-2	WATSON DAVID	CABINET SHOP	261	50			2	360	128	1000	800
0003	E	BOON THOMAS	CABINET SHOP	261	500			1	400	200	1000	800
0003	E	ALLEN HENRY	CABINET SHOP	261	150	HORSE	1	2	500	70	750	680
0003	C-2	STACEY NICHOLA	CABINET SHOP	261	100			1	300	40	600	560
0003	E	GAY WALTER	CABINET SHOP	261	150			1	400	50	550	500
0003	B-1	LANDON CHARLES	CABINET SHOP	261	200			1	360	40	500	460
0003	C-2	MERRILL DAVID P	CABINET SHOP	261	50			1	120	15	150	135
0003	A-2	WADE & WALBURN	FURNITURE	261	100			2	250	160		
					18280				21458	9199	45570	36531
					35				80			



KENT COUNTY: MACHINERY PRODUCERS, 1871

CDID	CED	PROPRIOR	TYPEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0002	G-2	HYSLOP & RONALD	STEAM ENGINE FAC	315-E	15000	STEAM	50	42	18000	6000	50000	44000
0002	G-1	DALGARNO & PARKIN	FOUNDRY/BOILER W	315-E/301	4000	STEAM	30	39	12000	2500	25000	22500
0002	G-2	HYSLOP & RONALD	IMPLEMENT FACTOR	311	10000	STEAM	50	20	9000	4000	20000	16000
0002	G-1	MCCOLL & CAMPBELL	FANNING MILL SHO	311	3000				10	4500	8000	10000
0002	G-1	SOUTAR & CO	FOUNDRY/MACHINE	311	5000	STEAM	10	12	5000	4500	13000	8500
0003	E	MARTIN ROBERT	PUMP FACTORY	315-P	600	HORSE	1	5	1000	1580	8400	6820
0002	G-1	SAINSBURY ROBERT	BLACKSMITH SHOP	311	1500				5	2340	2775	6400
0002	D-3	HALL & SONS	AGRICULTURAL WOR	311	5000	STEAM	12	7	400	1500	6000	4500
0003	A-2	LLOYD JOHN C	FOUNDRY	311	4000	STEAM	25	9	3000	840	6000	5160
0003	B-2	TAIT ANDREW	RAKE/SNATH/CRADL	311/306	2000	STEAM	16	3	800	110	1600	1490
0002	D-4	SIMMONS GEORGE	BLACKSMITH FORGE	311	400				1	450	1000	900
0002	D-1	SMITH JAMES	PLOUGH FACTORY	311	400				2	200	700	315
0002	F-3	MCGIBB JOHN	BLACKSMITH SHOP	311					2	500	75	438
0002	D-3	HALL ROBERT	PUMP FACTORY	315-P	140	STEAM	6	1	65	50	300	250
0002	G-1	ROSS GEORGE	BLACKSMITH SHOP	311	400				1	600	170	45
					51440		200	159	57855	32540	157008	124468

KENT COUNTY: CARRIAGE AND WAGON MAKERS, 1871

CDID	CED	PROPRIOR	TYPEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0002	G-1	GRAY WILLIAM	WAGON SHOP	329	4000	STEAM	16	33	7616	3380	11345	7965
0002	G-1	HAMILTON THEODOR	WAGON/CARRIAGE S	329	3000				11	1850	7000	5150
0003	E	TROTT JAMES	WAGONS/BLACKSMIT	329	2000				9	2000	5420	3420
0003	E	LUKE JAMES	WAGONS/BLACKSMIT	329/311	3000	STEAM	10	5	1700	2000	5170	3170
0003	C-2	KIMMERLY & HART	CARRIAGES/BLACKS	329/896	800				7	1400	4500	3400
0002	D-3	FLAYER G & N	WAGONS/BLACKSMIT	329	1500				9	900	2000	2000
0002	F-3	BECKER WILLIAM	BLACKSMITH SHOP	329	600				2	864	3610	2890
0002	G-1	YOUNG W & J	WAGON SHOP	329	1500				7	3000	3500	1500
0003	A-2	SHAW CHARLES	CARRIAGE SHOP	329	1500				6	1440	3450	2450
0002	D-3	BENNET WILLIAM	CARRIAGES/BLACKS	329/896	800				5	1800	2500	700
0003	A-3	ROCKY GEORGE	WAGONS/BLACKSMIT	329	1500				2	800	2500	1900
0003	C-1	CRAFT JAMES	BLACKSMITH/WAGON	329/896	100				4	1400	2000	1832
0002	G-2	THOMPSON JOHN D	CARRIAGE/WAGON S	329	1500				1	300	1940	1540
0002	G-1	DOLTON THOMAS	WAGON SHOP	329	120				4	1268	1700	1610
0003	C-1	KELLY GEORGE	WAGON SHOP	329	200				2	600	175	1325
0003	C-1	LECHANCE JOHN	WAGON SHOP	329	50				2	936	500	1000
0003	C-2	BODKIN WILLIAM	WAGON SHOP	329	200				2	720	600	740
0002	G-1	HICKLIN SAMUEL	WAGON SHOP	329	150				2	600	100	1100
0002	E-2	TRAMBLEY VITAL	WHEELS/CARRIAGES	329-P	800	HORSE	3	3	1070	360	1190	830
0002	D-3	COX JAMES	WAGON/CARRIAGE F	329	500				2	200	1040	990
0002	B-1	WOODS ALEXANDER	BLACKSMITH/WAGON	329/896	300				2	500	1000	710
0002	F-3	DESLAURIENS JOHN	WAGON SHOP	329	1000				2	600	1000	800
0002	G-2	BORDEAU & PELTIER	WAGON SHOP	329	300				1	350	1000	400
0003	B-2	KENNEDY WILLIAM	WAGON FACTORY	329	200				1	300	1000	976
0002	F-3	RAY GEORGE	WAGON SHOP	329	500				2	600	965	815
0002	E-2	ROBERT FRANCIS	CARRIAGE FACTORY	329	300				2	600	840	585
0003	C-2	MCKAY & HART	WAGON SHOP	329	40				2	600	700	600
0003	C-1	LEAK HENRY	WAGON SHOP	329	150				1	200	400	300
0003	A-3	MORGAN WILLIAM	WAGON SHOP	329	100				1	200	60	240
0003	A-1	DERCK ANDREW	WAGON SHOP	329	200				1	45	200	155
0002	D-2	RUBLE JESSE	FELLOE/HOWN FACT	329-P	100	HORSE	1	1		52	150	98
					27010		30	134	36748	22769	73960	51191



## KENT COUNTY: CHEMICAL INDUSTRIES, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0002	G-2	HUSON GEORGE	SOAP/POTASH FACT	376/378-P	3000	STREAM	4	6	2000	20000	23000	3000
0002	G-2	COATE & LAMONT	SOAP/POTASH FACT	376/378-P	8000	STREAM	6	8	1600	12000	21000	9000
0002	B-1	STEWART JAMES	PEARL ASH FACTORY	378-P	100			2	375	1680	1960	280
0003	E	RICHARDS HENRY	POTASH FACTORY	378-P	300			2	300	375	1400	1025
0003	C-2	ATKINS WILLIAM	ASHERY	378-P	200			2	400	125	720	595
0003	A-3	PAGE JOHN	POTASH FACTORY	378-P	600			2		150	700	550
0002	D-5	HITE MORTIMER	ASHERY	378-P				3	900	78	350	272
0002	B-1	MALOTT ALVIN	POT ASHERY	378-P	100			1	200	100	315	215
0002	B-1	HOPE THOMAS ?	BLACK SALTS	378-P	100			1	250	240	300	60
0003	A-3	PAGE JOHN	SOAP FACTORY	376	100			2		75	200	125
0002	B-2	STRUTHERS JOHN	POT ASHERY	378-P	150			1	200	50	180	130
0002	B-1	ANDERSON JOHN	BLACK SALTS	378-P	100			1	100	90	156	66
0002	D-3	KITCHEN JUDSON	POT ASHERY	378-P	50			1		120	150	30
0002	B-1	COUTTS ALEXANDER	POTASH/BLACK SAL	378-P	100			1	100	80	140	60
0002	B-1	ANDERSON THOMAS	BLACK SALTS	378-P	140			1	120	100	130	30
0002	B-2	BURGIS WILLIAM	POT ASHERY	378-P	100			1	200	60	130	70
0002	B-1	DUPRIS JULIEN	BLACK SALTS	378-P	25			1	20	85	115	30
0002	B-1	DUBIE JOHN	BLACK SALTS EST	378-P	25			1	80	80	100	20
0002	B-1	MANN JAMES	BLACK SALTS	378-P	50			1	60	50	65	15
0002	B-2	WILSON HENRY	POT ASHERY	378-P	100			1	200	20	60	40
0002	B-1	DUPRIS DAVID ?	BLACK SALTS	378-P	25			1		25	58	33
0002	B-2	MORRIS THOMAS	POT ASHERY	378-P	50			2	250	30	51	21
0002	B-2	CARELESS RICHARD	POT ASHERY	378-P	50			1	200	35	48	13
0002	B-1	KING LEWIS	BLACK SALTS EST	378-P	10			1	40	26	40	14
0002	B-2	GRAHAM ALEXANDER	POT ASHERY	378-P	80			1	312	20	40	20
0002	B-1	LAYTON D ?	POTASH/BLACK SAL	378-P	20			1	37	25	37	12
0002	B-1	SCOTT ALVIN	BLACK SALTS	378-P	10			1	22	20	31	11
0002	B-1	FARQUHARSON CHARL	BLACK SALTS	378-P	30			1	22	20	30	10
0002	B-2	MIFFLIN JAMES	POT ASHERY	378-P	30			1	250	12	27	15
0002	B-1	MARCHAND JULIUS	BLACK SALTS	378-P	15			1	20	16	25	9
0002	B-1	MARCHAND PETER	BLACK SALTS EST	378-P	5			1	15	16	23	7
0002	B-1	DUPRIS BENJAMIN ?	BLACK SALTS EST	378-P	36			1	25	16	23	7
0002	B-1	BRUCENA PETER	BLACK SALTS EST	378-P	5			1	10	10	15	5
0002	B-1	LAING JOHN	BLACK SALTS	378-P	30			1	10	8	13	5
0002	B-2	MCMAHON PATRICK	POT ASHERY	378-P	50			1		8	13	5
					13786		10	55	8318	35845	51645	15800

## KENT COUNTY: CONSTRUCTION TRADES, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0002	G-1	FLATER PHILIP	CARPENTER SHOP	421-C	300			5	1610	2500	8000	5500
0002	G-1	TILT JOSEPH	CARPENTER SHOP	421-C	500			13	5000	5000	8000	3000
0002	G-1	FLATER WILLIAM &	CARPENTER SHOP	421-C	500			4	1870	1200	5000	3800
0002	G-1	HARPER JAMES	PAINT SHOP	421-D	100			5	2000	1332	3600	2268
0002	G-1	OSWALD JOHN	PAINT SHOP	421-D	250			5	2096	1000	3000	2000
0003	B-2	BARR B ?	CARPENTER/FRAMER	421-C				3	700	1000	3000	2000
0003	C-1	JUDSON WILLIAM	PAINT SHOP	421-D	100			3	600	800	2000	1200
0002	G-1	DENNIS S F	PAINT SHOP	421-D	30			1	300	400	1300	900
					1780		0	39	14176	13232	33900	20668

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0003	A-2	TURNBULL & EVERET	N/G	896	50			2	540	5300	5900	600
0003	C-1	BULLAR HENRY	BLACKSMITH	FORGE				3	800	400	2000	1600
0003	B-2	NICKLE THOMAS	BLACKSMITH		800			1	300	365	1800	1435
0003	C-2	WANNAMAKER & HOWA	BLACKSMITH	SHOP	250			3	800	400	1700	1300
0002	D-3	LANE ADONITRAM	BLACKSMITH	SHOP	600			2	400	300	1500	1200
0002	F-3	HUBBLE BYRON M	BLACKSMITH	SHOP	50			2	600	390	1500	1110
0003	C-2	VANSTONE SAMUEL	BLACKSMITH	SHOP	150			2	500	280	1300	1020
0002	G-2	ROSS GEORGE	BLACKSMITH	SHOP	400			1	500	250	1200	950
0002	G-2	FONTENEAU EPHRAIM	BLACKSMITH	SHOP	600			1	50	250	1200	950
0002	D-5	CAMPBELL JAMES	BLACKSMITH	SHOP	150			2	720	100	1000	900
0002	G-2	CUNNINGHAM JOHN	BLACKSMITH	SHOP	400			2	600	60	1000	940
0002	G-2	BORDEAU & PELTIER	BLACKSMITH	FORGE	300			1	350	600	1000	400
0002	G-2	GIBSON CHARLES	BLACKSMITH	SHOP	400			0		300	1000	700
0002	G-2	THOMPSON JOHN D	BLACKSMITH	SHOP	300			1	400	300	1000	700
0003	A-1	PERSONS WILLIAM	BLACKSMITH	FORGE	300			2	600	196	1000	804
0003	C-1	FIELDS THADDEUS	BLACKSMITH	FORGE	100			2	450	335	1000	665
0003	B-2	MCDONALD M ?	BLACKSMITH	SHOP	200			1	300	365	900	535
0003	C-1	LEAK HENRY	BLACKSMITH	FORGE	150			1	400	400	900	500
0002	D-4	REDLEY WILLIAM	BLACKSMITH	FORGE	400			1		150	800	650
0002	F-3	WILKINSON EDWARD	BLACKSMITH	SHOP	175			1	350	125	800	675
0003	A-1	PERSONS JOSEPH	BLACKSMITH	FORGE	350			2	400	200	800	600
0003	B-2	FORD WILLIAM	BLACKSMITH	SHOP	150			2	450	598	800	202
0003	C-2	COLLINS MOSES H	BLACKSMITH	SHOP	60			1	300	300	800	500
0003	E	COLEMAN JAMES	BLACKSMITH	SHOP	200			2	500	140	800	660
0002	F-1	KINNY CALEB B	BLACKSMITH	FORGE	50			2	500		750	
0003	C-2	WELLS HENRY	BLACKSMITH	SHOP	100			1	300	280	700	420
0002	B-2	SMITH ABRAHAM	BLACKSMITH	SHOP	500			2	465	80	600	520
0003	A-3	YOUNGE JAMES	BLACKSMITH	FORGE	200			2		140	600	460
0002	D-3	KITCHEN GEORGE	BLACKSMITH	SHOP	75			1		70	500	430
0002	D-4	DYER WILLIAM	BLACKSMITH	FORGE	250			1		100	500	400
0003	A-1	FRANCIS GEORGE	BLACKSMITH	FORGE	500			1	250	200	500	300
0003	A-2	DUCK ISAAC	BLACKSMITH		100			1	400	50	500	450
0003	B-1	MCFARLANE NEIL	BLACKSMITH		400			1	360	30	500	470
0003	C-1	LECHANCE JOHN	BLACKSMITH	FORGE	60			1	468	250	500	250
0002	C-4	CARTER WILLIAM	BLACKSMITH	FORGE	150			1	300	200	400	200
0002	E-1	HEBERT ISIDORE	BLACKSMITH		100			1	60	80	400	320
0002	E-1	HEBERT ISADORE	BLACKSMITH		100			1	60	80	400	320
0003	A-3	YOUNG JOHN	BLACKSMITH	FORGE	100			1	50	100	400	300
0003	C-1	BYRDEN DAVID	BLACKSMITH	SHOP	100			1	120	100	400	300
0003	C-1	BOLTON HENRY	BLACKSMITH	FORGE	100			1	300	80	300	220
0002	D-2	FENWICK BARNABAS	BLACKSMITH	SHOP	200			1		32	280	248



## KENT COUNTY: FIRMS USING INANIMATE POWER (15+ HP)

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0002	F-1	VAN ALLEN DANIEL	SAW MILL	251	12000	STEAM	75	35	10000	18400	39663	21263
0002	F-3	PATTERSON WILLIAM	SAW/GRIST MILL	251/105	25000	STEAM	50	12	5628	24500	40000	15500
0002	G-2	HYSLOP & RONALD	STEAM ENGINE FAC	315-E	15000	STEAM	50	42	18000	6000	50000	44000
0002	G-2	HYSLOP & RONALD	IMPLEMENT FACTORY	311	10000	STEAM	50	20	9000	4000	20000	16000
0003	A-1	FERGUSON JOHN/ROB	SAW MILL	251	5000	STEAM	50	23	5500	9000	16800	7800
0002	G-1	NORTHWOOD JOSEPH	SAW MILL	251	8000	STEAM	45	24	6000	20000	25000	5000
0003	C-2	JOHNSTON JOHN H	SAW MILL	251	3000	STEAM	45	16	3760	11440	22880	11440
0002	D-2	ARNOLD THADDEU	SAW MILL	251	4000	STEAM	40	7	200	1500	3500	2000
0002	D-5	BRIGHT ROBERT	SAW MILL	251	3000	STEAM	40	13	2500	2000	1280	-720
0002	F-3	CAROLAN THOMAS	SAW MILL	251	1500	STEAM	40	12	3168	7500	15000	7500
0002	G-2	HOLMES THOMAS	GRIST/FLOUR MILL	105	4000	STEAM	40	4	1600	15000	18000	3000
0003	A-1	HOLMES HENRY	SAW MILL	251	5000	STEAM	40	4	600	900	2800	1900
0003	C-2	TREICE & CO	SAW MILL	251	6000	STEAM	40	16	3840	15000	30000	15000
0002	F-1	BLACKBURN JOHN N	SAW MILL	251	2500	STEAM	35	10	1800	4000	10000	6000
0002	G-1	HADLEY SYLVEST	SASH/DOOR FACTORY	254	4500	STEAM	35	12	5616	3000	8616	5616
0002	G-1	BLACKBURN JOHN	SAW MILL	251	2500	STEAM	35	10	1800	4000	10000	6000
0003	A-2	CAMPBELL ARCHIBA	GRIST MILL	105	3000	W/S	35	3	500	13500	14500	1000
0002	A	BACKUS ELIZA	SAW MILL	251	3000	STEAM	30	6	900	800	2068	1268
0002	C-1	MCCELLER ARCH	SAW MILL	251	2000	STEAM	30	9	1625	20000	20000	0
0002	D-3	HUGHSON ROBERT	GRIST/FLOUR MILL	105	5000	STEAM	30	2	500	30000	35000	5000
0002	D-3	BISNETT ALFRED	GRIST MILL	105	5000	STEAM	30	10	3000	6000	10000	4000
0002	F-3	MCRAE WILLIAM	GRIST MILL	105	7000	STEAM	30	3	1200	30000	37860	7860
0002	G-1	DALCARNO & PARKIN	FOUNDRY/BOILER W	315-E/301	4000	STEAM	30	39	12000	2500	25000	22500
0002	G-2	BAKTER & BROWN	GRIST MILL	105	12000	STEAM	30	5	2400	22000	27000	5000
0003	A-2	SWARTHANS ISAAC	SAW MILL	251	10000	STEAM	30	13	3400	4000	12000	8000
0003	C-2	LAMONT & SCAMAN	GRIST MILL	105	2700	STEAM	30	4	2000	41600	47840	6240
0002	E-1	RAY WILLIAM	SAW MILL	251	3000	STEAM	28	5	1000	3000	6500	3500
0002	A	BELL CYRUS	SAW MILL	251	1500	STEAM	25	6	768	900	3000	2100
0002	C-2	PARDO T L & W	SAW MILL	251	4000	STEAM	25	8	1400	5000	9000	4000
0003	A-2	LLOYD JOHN C	FOUNDRY	311	4000	STEAM	25	9	3000	840	6000	5160
0003	C-1	SMITH ALFRED	SAW/GRIST MILL	251/105	3000	STEAM	25	4	500	12000	14400	2400
0002	B-1	JAMES JAMES	GRIST MILL	105	2000	STEAM	20	5	625	2000	2660	660
0002	B-1	JAMES JAMES	GRIST MILL	105	2000	STEAM	20	2	360	10128	11168	1040
0002	B-1	GARNIR WILLIAM	SAW MILL	251	1300	STEAM	20	3	360	405	800	395
0002	D-1	PIKE & RICHARD	SAW MILL	251	2000	STEAM	20	9	1400	3750	9000	5250
0002	D-3	KINNEY LEWIS	PLANING/SASH/DOO	254	4000	STEAM	20	17	1100	50000	58000	8000
0002	E-1	CHEFFRE JOSEPH	SAW MILL	251	2500	STEAM	20	11	1000	1350	3000	1650
0002	G-2	ALDIS SALEM ?	SAW MILL	251	5000	STEAM	20	8	2000	2000	8000	6000
0002	G-2	ROBINSON FREDERIC	GRIST MILL	105	3000	STEAM	20	2	940	10000	15000	5000
0003	A-3	MOODY JOHN	CLOTH FACTORY	182	5000	STEAM	20	7	700	1200	2750	1550
0003	A-3	MOODY JOHN	GRIST MILL	105	5000	STEAM	20	2	624	2200	3500	1300
0003	B-1	CUNNINGHAM JOHN	SAW MILL	251	3000	STEAM	20	10	4000	4000	9900	5900
0003	B-2	MCLEAN WILLIAM ?	SAW/PLANING MILL	251	9000	STEAM	20	5	1200	18000	25000	7000
0003	C-1	FERGUSON ROBERT	SAW MILL	251	3000	STEAM	20	12	4000	5000	14000	9000
0003	C-1	ROBINSON BENJAMI	GRIST MILL	105	3000	STEAM	20	3	950	25000	28000	3000
0003	C-1	ROBINSON BENJAMI	CARDING MILL	189-W	1000	STEAM	20	1	50	1200	1440	240
0003	E	REID COLIN	PLANING/SASH/DOO	254	5000	STEAM	20	6	1500	2600	6650	4050
0003	E	WARD SILAS	TURNING SHOP	259-W	9000	STEAM	20	1	100	60	300	240
0003	E	GORDON JOHN D	CLOTH FCY/CARDIN	182/189-W	3500	STEAM	20	10	1500	4660	12000	7340
0003	E	CHAMBERS R & CO	FLOUR MILL	105	1000	STEAM	20	2	750	22000	24500	2500
0003	E	CHAMBERS R & CO	STAVE FACTORY	251	1000	STEAM	20	10	800	1200	2400	1200
0002	B-2	SMITH THOMAS	SAW MILL	251	1600	STEAM	18	3	785	150	1145	995



## KENT COUNTY: FIRMS USING INANIMATE POWER (15+ HP)

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0003	A-1	FERGUSON	JOHN	251	1800	STEAM	18	3	400	600	1500	900
0003	C-2	SMITH	ALFRED	105	1200	WATER	18	1	320	12000	13250	1250
0002	D-3	FARRELL	ISAAC	259	3000	STEAM	16	5	2500	2000	10000	8000
0002	D-3	FENARY &	FLATER	251-S	1000	STEAM	16	6	700	500	2100	1600
0002	E-2	RANKIN	ROBERT	251-S	1500	STEAM	16	9	784	122	356	234
0002	F-3	MARTIN	THEODOR	172	1300	STEAM	16	3	750	1375	2800	1425
0002	G-1	GRAY	WILLIAM	329	4000	STEAM	16	33	7616	3380	11345	7965
0002	G-1	SMITH	ROBERT	261	10000	STEAM	16	34	8300	3125	15220	12095
0002	G-2	SMALL &	QUIRK	251/315-P	3000	STEAM	16	9	2500	3100	8250	5150
0002	G-2	BAXTER	JAMES	254	1000	STEAM	16	5	2000	360	4725	4365
0003	A-2	SPRINGSTEEN	JAMES	105	3000	W/S	16	3	1080	15000	18080	3080
0003	B-1	GIBSON &	WRIGHT	105	1000	WATER	16	3	800	5000	6000	1000
0003	B-2	TAIT	ANDREW	311/306	2000	STEAM	16	3	800	110	1600	1490
0003	B-3	GOSNELL	JAMES	251	2550	STEAM	16	10	1476	1800	4580	2780
0003	C-2	VIRGO &	FRENCH	254	3000	STEAM	16	6	900	3000	5100	2100
0003	C-2	ANDERSON	JAMES	251-S	1000	STEAM	16	5	650	447	2050	1603
0002	D-3	ATKINSON	WILLIAM	259	1800	STEAM	15	3	2000	2000	4000	2000
0002	D-3	BISNETT	ALFRED	259-W/254	2000	STEAM	15	16	4000	1000	5000	4000
0002	G-2	ROBERT FRANCES ?	GRIST MILL	105	4500	STEAM	15	3	800	15000	17400	2400
0003	A-1	DUFFUS	ROBERT	251/251-S	1960	STEAM	15	4	741	1000	2000	1000
0003	C-1	DUFFUS	ROBERT	251	1900	STEAM	15	4	700	1000	3000	2000

KENT COUNTY: FIRMS EMPLOYING 2+ FEMALES IN 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	FEMALE	WAGES	SUMRAWC	SUMPROC	VADD
0002	G-1	ROSS	MISS	244	75		.	9	1500	2900	4500	1600
0002	G-2	COCKER	MILLINERY SHOP	244	40		.	8	700	3000	6000	3000
0002	G-2	TAYLOR &	MILLINERY EST	244	30000	STEAM	.	7	5613	28280	42345	14065
0002	G-1	COWAN	MILLINERY SHOP	244	50		.	5	375	.	500	.
0002	G-1	LAMONT	H & M	243	5000		.	4	5500	7825	15840	8015
0002	G-1	RICHARDSON W & T	TAILOR DEPARTMENT	243	300		.	4	2800	7825	15840	8015
0003	C-2	SMITH JAMES & SON	MERCHANT TAILOR	243	6200	STEAM	12	4	1000	4500	5528	1028
0003	E	THOMPSON ALEXAND	WOOLEN FACTORY	182	500		.	4	250	700	1200	500
0002	B-1	RICHARDSON JOHN	DRESSMAKING/MILL	244	200		.	3	200	560	770	210
0002	D-3	WARNER ELI	CHEESE FACTORY	104	300	STEAM	10	3	600	3000	6000	3000
0002	F-3	WALKER PERMELIA ?	WOOLEN FACTORY	182	25		.	3	120	.	300	.
0002	G-1	HOAG WILLIAM & SO	WEAVE SP/DRESSMA	182-W	500		.	3	2000	3500	8500	5000
0002	G-1	DALGARNO & PARKIN	MERCHANT TAILOR	243	4000	STEAM	30	3	12000	2500	25000	22500
0002	G-1	SMITH ISAAC	FOUNDRIY/BOILER W	315-E	150		.	3	1500	5000	8000	3000
0003	A-3	MOODY JOHN	MERCHANT TAILOR	242	5000	STEAM	20	3	700	1200	2750	1550
0003	E	GORDON JOHN D	CLOTH FACTORY	182	9000	STEAM	20	3	1500	4660	12000	7340
0002	B-1	MARSHAL GEORGE	CLOTH FCY/CARDIN	182	500		.	2	160	810	990	180
0002	F-3	AYRES WILLIAM	CHEESE FACTORY	104	100		.	2	800	3525	4208	683
0002	G-1	RICHARDS/SUTHERLA	TAILOR SHOP	243	50		.	2	250	.	832	.
0003	A-1	FERGUSON JOHN/ROB	MILLINER/DRESSMA	249-M	10000		.	2	5580	30200	46800	16600
0003	A-3	SCHINDLER F X	KENT BAKERY	107	5000	STEAM	50	2	5500	9000	16800	7800
0003	C-1	PUPST BENJAMIN ?	SAW MILL	251	100		.	2	160	100	600	500
0003	C-2	YOUNG MARGARET A	TAILOR ESTABLISH	242	200		.	2	560	1400	2100	700
0003	C-2	WILLISTON MARGARE	MERCHANT TAILOR	243	70		.	2	200	600	900	300
0003	E	LAUGHTON WILLIAM	MILLINER SHOP	244	50		.	2	200	500	700	200
0003	E	LAUGHTON WILLIAM	MILLINER/DRESSMA	244	50		.	2	130	1200	1800	600
									4988	122785	230803	106386
									142	89		
					77480							

KENT COUNTY: FIRMS BY NAME OF PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0003	A-2		BRICK/TILE YARD	351-B	1000	HORSE	1	7	140	.	400	.
0003	C-1	ADAIR ROBERT	BOOT/SHOE SHOP	174	300		.	3	560	800	1300	500
0003	C-2	ADAMS GEORGE	BLACKSMITH SHOP	896	20		.	1	120	.	185	.
0003	C-2	AGIN CORNELIUS ?	SHOE SHOP	174	10		.	1	60	30	60	30
0002	G-2	ALDIS SALEM ?	SAW MILL	251	5000	STEAM	20	8	2000	2000	8000	6000
0003	E	ALLEN HENRY	CABINET SHOP	261	150	HORSE	1	2	500	70	750	680
0002	G-1	ALLEN ROBERT	PHOTOGRAPH GALLE	893	300		.	2	900	1000	3000	2000
0003	C-2	ANDERSON JAMES	SHINGLE MILL	251-S	1000	STEAM	16	5	650	447	2050	1603
0003	G-2	ANDERSON LEVI	COOPER SHOP	259-C	100		.	2	450	100	650	550
0002	B-1	ANDERSON JOHN	BLACK SALTS	378-P	100		.	1	100	90	156	66
0002	B-1	ANDERSON THOMAS	BLACK SALTS	378-P	140		.	1	120	130	130	30
0002	C-2	ARNOLD SAMUEL	CABINET SHOP	261	400		.	2	700	500	1400	900
0002	D-2	ARNOLD SOLOMON	SHINGLE FACTORY	251-S	30	HORSE	1	1	.	20	83	63
0002	D-2	ARNOLD THADDEU	SAW MILL	251	4000	STEAM	40	7	200	1500	3500	2000
0002	B-2	ASKEW ISAAC	SHINGLE FACTORY	251-S	30	HORSE	1	2	260	60	225	165
0003	C-2	ATKINSON WILLIAM	ASHERY	378-P	200		.	2	400	125	720	595
0002	D-3	ATKINSON WILLIAM	HANDLE MANUFACTO	259	1800	STEAM	15	3	2000	2000	4000	2000
0003	E	AVERY NOBLE H	TAILOR SHOP	243	100		.	1	300	840	1200	360
0003	D-2	AVERY MACK	COOPER SHOP	259-C	50		.	1	300	75	400	325
0002	F-3	AYRES WILLIAM	TAILOR SHOP	243	100		.	4	800	3525	4208	683
0002	A	BACKUS ELIZA	SAW MILL	251	3000	STEAM	30	6	900	800	2068	1268
0002	D-4	BAIRD WILLIAM	SHOE SHOP	174	500		.	1	.	300	500	200
0002	G-1	BALL WILLIAM	TIN SHOP	304-T	2000		.	4	1300	1400	3500	2100
0003	B-2	BARR B ?	CARPENTER/FRAMER	421-C	.		.	3	700	1000	3000	2000
0002	C-1	BARTLETT WILLIAM	BROOM FACTORY	399-B	100		.	1	120	75	240	165
0002	G-1	BATES FREDERI	MARBLE WORKS	353	500		.	2	771	520	3480	2960
0002	G-2	BAXTER HENRY	LIME KILN	358-L	500		.	2	200	600	1200	600
0002	G-2	BAXTER JAMES	SASH/DOOR/BLIND	254	1000	STEAM	16	5	2000	360	4725	4365
0002	G-2	BAXTER & BROWN	GRIST MILL	105	12000	STEAM	30	5	2400	22000	27000	5000
0002	G-2	BAXTER & BROWN	CARDING MACHINE	189-W	4000	STEAM	.	3	.	.	.	.
0002	F-3	BECKER WILLIAM	BLACKSMITH SHOP	329	600		.	2	864	720	3610	2890
0002	A	BELL CYRUS	SAW MILL	251	1500	STEAM	25	6	768	900	3000	2100
0002	D-3	BENEDICT ARCHIBAL	SHOE SHOP	174	100		.	1	.	400	800	400
0002	G-1	BENNETT ERNEST	FURRIER SHOP	246	50		.	1	300	200	300	100
0002	D-3	BENNETT WILLIAM	CARRIAGES/BLACKS	329/896	800		.	5	800	1800	2500	700
0002	G-2	BENNETT THOMAS	DISTILLERY	109-D	2000	STEAM	12	1	150	3000	15000	12000
0002	G-2	BENNETT THOMAS	GRIST MILL	105	500	STEAM	12	1	175	15000	18000	3000
0002	G-2	BERRY WILLIAM	ICE HOUSES	108-I	2000		.	4	700	1600	1600	0
0002	D-3	BISNETT ALFRED	TURNING/SASH/DOO	259-W/254	2000	STEAM	15	16	4000	1000	5000	4000
0002	D-3	BISNETT ALFRED	GRIST MILL	105	5000	STEAM	30	10	3000	6000	10000	4000
0002	G-1	BLACKBURN JOHN	SAW MILL	251	2500	STEAM	35	10	1800	4000	10000	6000
0002	F-1	BLACKBURN JOHN N	SAW MILL	251	2500	STEAM	35	10	1800	4000	10000	6000
0003	C-2	BODKIN WILLIAM	WAGON SHOP	329	200		.	2	720	600	1340	740
0003	C-1	BOLTON HENRY	BLACKSMITH FORGE	896	100		.	1	300	80	300	220
0003	E	BOON THOMAS	CABINET SHOP	261	500		.	1	400	200	1000	800
0002	G-2	BORDEAU & PELTIER	BLACKSMITH FORGE	896	300		.	1	350	600	1000	400
0002	G-2	BORDEAU & PELTIER	WAGON SHOP	329	300		.	1	350	600	1000	400
0002	G-1	BRADY PATRICK	CABINET SHOP	261	2000		.	6	3000	550	6700	6150
0002	E-2	BRAYNE RICHARD	BRICK FACTORY	351-B	400	HORSE	1	5	300	75	4285	4210
0002	D-5	BRIGHTAM ROBERT	SAW MILL	251	3000	STEAM	40	13	2500	2000	1280	-720
0003	A-3	BRITTON EPHRAIM	HARNES SHOP	179-S	400		.	2	150	700	1320	620



## KENT COUNTY: FIRMS BY NAME OF PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0003	B-2	BRITTON JAMES	HARNESSMAKER	179-S	50			3	150	500	800	300
0002	D-3	BROWN EDWARD C	TIN/COPPER MF	304-T	800			3	200	2000	3000	1000
0002	B-1	BRUCENA PETER	BLACK SALTS EST	378-P	5			1	10	10	15	5
0003	C-1	BRYDEN DAVID	BLACKSMITH SHOP	896	100			1	120	100	400	300
0003	C-1	BULLAR HENRY	BLACKSMITH FORGE	896				3	800	400	2000	1600
0003	A-1	BULLER JAMES	CHEESE FACTORY	104	1150			4	540	1092	1400	308
0002	F-3	BURGESS JOHN	SHOE SHOP	174	50			2	600	628	1700	1072
0002	B-2	BURGIS WILLIAM	POT ASHERY	378-P	100			1	200	60	130	70
0003	A-1	CAMMERON PETER	BRICK YARD	351-B	150	HORSE	4	3	335	50	500	450
0003	A-2	CAMPBELL ARCHIBA	GRIST MILL	105	3000	W/S	35	3	500	13500	14500	1000
0003	E	CAMPBELL JOHN A	MARBLE CUTTING S	353	100			1	200	1000	3000	2000
0003	B-1	CAMPBELL ARCHIBAL	SAW MILL	251	1000	WATER		4	800	1000	3000	2000
0002	D-5	CAMPBELL JAMES	BLACKSMITH SHOP	896	150			2	720	100	1000	900
0002	B-2	CANFIELD EBENEZER	BLACKSMITH FORGE	896	60			1	500	12	60	48
0002	F-3	CAROLESS RICHARD	POT ASHERY	378-P	50			1	200	35	48	13
0002	F-3	CAROLAN THOMAS	SAW MILL	251	1500	STEAM	40	12	3168	7500	15000	7500
0002	F-3	CAROLAN JOHN D	TAILOR SHOP	243	35			1	400		450	
0002	C-4	CARTER WILLIAM	BLACKSMITH FORGE	896	150			1	300	200	400	200
0003	E	CASMORE LOUIS	TAILOR SHOP	243	50			2	350	940	1200	260
0002	B-2	CAUFIELD SOLOMON	CIDER MILL	109-C	200	HORSE	1	3	300	112	135	23
0003	E	CHAMBERS R & CO	FLOUR MILL	105	3500	STEAM	20	2	750	22000	24500	2500
0003	E	CHAMBERS R & CO	STAVE FACTORY	251	1000	STEAM	20	10	800	1200	2400	1200
0002	E-1	CHEFFRE JOSEPH	SAW MILL	251	2500	STEAM	20	11	1000	1350	3000	1650
0002	D-5	CLEVELAND JAMES	LIME KILN	358-L	100			1	240	250	750	500
0002	G-2	COATE & LAMONT	SOAP/POTASH FACT	376/378-P	8000	STEAM	6	8	1600	12000	21000	9000
0002	G-2	COCKER ELLEN	MILLINERY EST	244	40			8	700	3000	6000	3000
0003	E	COLEMAN JAMES	BLACKSMITH SHOP	896	200			2	500	140	800	660
0003	A-2	COLLINS JAMES	POTTERY	351-P	92	HORSE	1	1	200	300	600	300
0003	C-2	COLLINS MOSES H	BLACKSMITH SHOP	896	60			1	300	300	800	500
0003	A-3	COLMAN WALTER	CABINET FACTORY	261	600			6	1000	120	2000	1880
0003	A-2	CONWAY WILLIAM	BRICK YARD	351-B	100	HORSE	1	5	150	500	1000	500
0002	A	COOPER SAMUEL	BRICK FACTORY	351-B	3			3	36		675	
0002	D-4	COPELAND CHARLES	BRICK FACTORY	351-B	100	HORSE	1	6	300	25	750	725
0002	G-2	CORNELL JAMES	BRICK MAKING EST	351-B	200	HORSE	1	16	500	20	5000	4980
0002	E-2	CORNHILL JAMES	BRICK FACTORY	351-B	2000	HORSE	2	13	4000	1600	10000	8400
0002	C-4	COSMON JAMES	BLACKSMITH SHOP	896	20			1		100	150	50
0002	D-3	COUGHLAN THOMAS	CABINET/SHINGLE	261/251-S	1500	STEAM	6	7	1500	1000	4000	3000
0002	B-1	COUTTS ALEXANDER	POTASH/BLACK SAL	378-P	100			1	100	80	140	60
0002	G-1	COWAN FRANCES	MILLINERY SHOP	244	50			5	375		500	
0002	D-3	COX JAMES	WAGON/CARRIAGE F	329	500			2	200	50	1040	990
0003	C-1	CRAFT JAMES	BLACKSMITH/WAGON	329/896	100			4	1400	168	2000	1832
0002	G-2	CRAIG ROBERT	WEAVING LOOM	182-W	40			2	100	840	800	-40
0003	E	CREE JOHN	SHOE SHOP	174	100			1	300	405	800	395
0003	A-3	CROUCH SAMUEL	SHINGLE MACHINE	251-S	600	STEAM	14	3	165	300	7500	7200
0002	G-2	CUNNINGHAM JOHN	BLACKSMITH SHOP	896	400			2	600	60	1000	940
0003	B-1	CUNNINGHAM JOHN	SAW MILL	251	3000	STEAM	20	10	4000	4000	9900	5900
0002	G-1	DALGARNO & PARKIN	FOUNDRY/BOILER W	315-E/301	4000	STEAM	30	39	12000	2500	25000	22500
0003	C-1	DALING SIMON ?	SHOE SHOP	174	10			1	200	240	320	80
0002	F-3	DARLING CORNELIUS	HARNESS SHOP	179-S	200			1	350	387	720	333
0002	G-1	DAVIS JOHN	TIN SHOP	304-T	300			1	350	300	750	450
0003	C-2	DAVIS T W	TAILOR SHOP	243	300			1	240	600	1200	600

KENT COUNTY: FIRMS BY NAME OF PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0002	E-2	DAYNEAU HUBERT ?	BLACKSMITH FORGE	896	30			1	50	15	75	60
0002	G-1	DELOS LOUIS	TAILOR SHOP	242	50			2	900	2000	4000	2000
0002	G-1	DENNIS S F	PAINT SHOP	421-D	30			1	300	400	1300	900
0003	A-1	DERCK ANDREW	WAGON SHOP	329	200			1		45	200	155
0002	F-3	DESLAURIENS JOHN	WAGON SHOP	329	1000			2	600	200	1000	800
0002	G-1	DOLTON THOMAS	WAGON SHOP	329	120			4	1268	90	1700	1610
0003	C-2	DRAGGO HENRY	TAILOR SHOP	243	100			2	600	700	1400	700
0002	B-1	DUBIE JOHN	BLACK SALTS EST	378-P	25			1	80	80	100	20
0003	A-2	DUCK ISAAC	BLACKSMITH	896	100			1	400	50	500	450
0003	A-1	DUFFUS ROBERT	PLANING/SHINGLE	251/251-S	1960	STEAM	15	4	741	1000	2000	1000
0003	C-1	DUFFUS ROBERT	SAW MILL/STAVE F	251	1900	STEAM	15	4	700	1000	3000	2000
0002	F-3	DUNLOP CATHARINE	MILLINER/DRESSMA	249-M/244	50			2	250		832	
0002	B-1	DUPRIS BENJAMIN ?	BLACK SALTS EST	378-P	36			1	25	16	23	7
0002	B-1	DUPRIS DAVID ?	BLACK SALTS	378-P	25			1		25	58	33
0002	B-1	DUPRIS JULIEN	BLACK SALTS	378-P	25			1	20	85	115	30
0003	E	DYER MARTHA	MILLINER SHOP	249-M	300			1	100	300	600	300
0002	D-4	DYER WILLIAM	BLACKSMITH FORGE	896	250			1		100	500	400
0003	B-3	EBOTER JOHN H ?	BLACKSMITH FORGE	896	200			1	175	32	250	218
0002	C-1	EDMONDS CHARLES	BROOM FACTORY	399-B	55			3	200	60	360	300
0003	E	EDWARD CHARLES	HARNES MAKING	179-S	400			1	300	800	1400	600
0003	A-1	EDWARDS TOBIAS	BLACKSMITH SHOP	896	50			1	130	50	250	200
0003	C-1	EGLIN RICHARD	BOOT/SHOE SHOP	174	30			1	200	200	500	300
0003	C-2	EMERY DAVID	TIN SHOP	304-T	250			1	600	834	1640	806
0002	D-1	EVERITT WILLIAM	BRICK FACTORY	351-B	75	HORSE	1	3	520	60	980	920
0002	B-1	FARQUHARSON CHARL	BLACK SALTS	378-P	30			1	22	20	30	10
0002	G-1	FARREL RICHARD	SHOE SHOP	174	75			3	900	1800	1500	-300
0002	D-3	FARRELL ISAAC	SPADE HANDLE FCY	259	3000	STEAM	16	5	2500	2000	10000	8000
0002	D-3	FENARY & FLATER	SHINGLE FACTORY	251-S	1000	STEAM	16	6	700	500	2100	1600
0002	D-2	FENWICK BARNABAS	BLACKSMITH SHOP	896	200			1		32	280	248
0003	A-1	FERGUSON JOHN	SAW MILL	251	1800	STEAM	18	3	400	600	1500	900
0003	C-1	FERGUSON ROBERT	SAW MILL	251	3000	STEAM	20	12	4000	5000	14000	9000
0003	A-1	FERGUSON JOHN/ROB	SAW MILL	251	5000	STEAM	50	23	5500	9000	16800	7800
0003	C-1	FIELDS THADDEUS	BLACKSMITH FORGE	896	100			2	450	335	1000	665
0002	F-3	FISHER JOHN	UNDERTAKER/CARPE	258/421-C	200			2	900	1000	2000	1000
0002	D-3	FLATER G & N	WAGONS/BLACKSMIT	329	1500			9	900	2000	4000	2000
0002	G-1	FLATER PHILIP	CARPENTER SHOP	421-C	300			5	1610	2500	8000	5500
0002	G-1	FLATER WILLIAM &	CARPENTER SHOP	421-C	500			4	1870	1200	5000	3800
0002	G-2	FONTENEAU EPHRAIM	BLACKSMITH SHOP	896	600			1	50	250	1200	950
0003	B-2	FORD WILLIAM	BLACKSMITH SHOP	896	150			2	450	598	800	202
0002	F-3	FORHAN THOMAS	HARNES SHOP	179-S/179-T	400			2	864	896	2688	1792
0003	A-1	FRANCIS GEORGE	BLACKSMITH FORGE	896	500			1	250	200	500	300
0003	C-2	FRANCIS WILLIAM	SHOE SHOP	174	200			3	1080	1500	3276	1776
0002	C-4	GANTES EDWARD ?	HARNES/SADDLE S	179-S	20			1	100	200	300	100
0002	G-1	GARDNER JAMES	SAW MILL	251	1500	WATER	10	2	200	600	2400	1800
0002	B-1	GARDNER WILLIAM	SAW MILL	251	1300	STEAM	20	3	360	405	800	395
0002	G-2	GARNER JOHN	BREWERY	109-B	3000	HORSE	1	4	600	3500	8000	4500
0003	E	GAY WALTER	CABINET SHOP	261	150			1	400	50	550	500
0002	G-1	GEMMELL J R	PRINTING OFFICE	289	3000			8	1800	850	3500	2650
0003	B-2	GEORGE RICHARD	CABINET FACTORY	261/258	1000	STEAM	6	6	1000	750	3000	2250
0002	D-2	GEORGE THOMAS J	BOOTS/SHOES	174	155			1	300	500	850	350
0002	F-1	GERNAY LEONARD	TAILOR SHOP	242	200			2	600	100	500	400

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CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0002	G-1	GERNAY	RICHARD TAILOR SHOP	243	50			2	600	2500	3500	1000
0002	G-2	GIBSON	CHARLES BLACKSMITH SHOP	896	400			0		300	1000	700
0003	B-1	GIBSON & WRIGHT	GRIST MILL	105	1000	WATER	16	3	800	5000	6000	1000
0002	E-2	GILLETTE	EDWIN BRICK FACTORY	351-B	100	HORSE	1	8	1000	78		
0003	E	GORDON	JOHN D CLOTH FCY/CARDIN	182/189-W	9000	STEAM	20	10	1500	4660	12000	7340
0003	B-3	GOSNEL	JAMES SAW MILL	251	2550	STEAM	16	10	1476	1800	4580	2780
0003	E	GOULDING	HENRY BAKER SHOP	107	150			1	300	2400	3000	600
0002	B-2	GRAHAM	ALEXANDER POT ASHERY	378-P	80			1	312	20	40	20
0002	G-1	GRAY	WILLIAM WAGON SHOP	329	4000	STEAM	16	33	7616	3380	11345	7965
0002	B-2	GRAY JAMES	SHOE SHOP	174	20			1	336	31	120	89
0002	C-2	GREEN ROBERT	BRICK KILN	351-B	100			4			270	
0002	F-1	GREENWOOD	WILLIAM PLANE STOCK FACT	251	4000	STEAM	10	12	1200	7500	7500	0
0002	G-1	HADLEY	SYLVEST SASH/DOOR FACTOR	254	4500	STEAM	35	12	5616	3000	8616	5616
0002	D-3	HALL	ROBERT PUMP FACTORY	315-P	140	STEAM	6	1	65	50	300	250
0002	D-3	HALL & SONS	AGRICULTURAL WOR	311	5000	STEAM	12	7	400	1500	6000	4500
0002	G-1	HAMILTON	THEODOR WAGON/CARRIAGE S	329	3000			11	5184	1850	7000	5150
0002	F-1	HARDY WILLIAM G	SHOE SHOP	174	40			1		100	240	140
0002	G-1	HARPER	JAMES PAINT SHOP	421-D	1000			5	2000	1332	3600	2268
0003	D-2	HARTWICK	ISAAC SHINGLE FACTORY	251-S	300	HORSE	1	3	300	200	650	450
0002	D-2	HARTWICK	LESLIE CHEESE FACTORY	104	500			2	114	1029	1258	229
0003	E	HAWKINS	JOHN SHOE SHOP	174	100			1	300	390	800	410
0002	E-1	HEBERT	ISADORE BLACKSMITH	896	100			1	60	80	400	320
0002	E-1	HEBERT	ISIDORE BLACKSMITH	896	100			1	60	80	400	320
0002	F-3	HENDERSON	DAVID TIN SHOP	304-T	400			1	450	358	500	142
0002	G-1	HICKLIN	SAMUEL WAGON SHOP	329	150			2	600	100	1200	1100
0003	C-1	HICKMAN	GEORGE F TIN SHOP	304-T	200			1	100	535	800	265
0002	G-1	HIGGINS	JAMES BOOT/SHOE SHOP	174	100			6	2000	1000	3000	2000
0003	A-2	HILL ARTHUR	COAL	061	500			1	200		1500	
0003	A-2	HILL DAVID	LIME KILN	358-L	400			2	250	210	800	590
0002	D-5	HITE MORTIMER	ASHERY	378-P				3	900	78	350	272
0002	G-1	HOAG WILLIAM & SO	MERCHANT TAILOR	243	500			8	2000	3500	8500	5000
0003	E	HOLLAND	JOHN W PRINTING OFFICE	289	1500			4	1200	300	2000	1700
0003	A-1	HOLMES	HENRY SAW MILL	251	5000	STEAM	40	4	600	900	2800	1900
0002	G-2	HOLMES	THOMAS GRIST/FLOUR MILL	105	4000	STEAM	40	4	1600	15000	18000	3000
0003	E	HONEY	DAVID A PHOTOGRAPHY SHOP	893	100			1	300	127	500	373
0002	C-4	HOOPER HARRY & JO	BOOT/SHOE SHOP	174	5			1	40	50	100	50
0002	B-1	HOPE THOMAS ?	BLACK SALTS	378-P	100			1	250	240	300	60
0002	G-2	HORN	JOHN A GINGER BEER FACT	109-S	2000			3	500	900	1500	600
0002	F-3	HUBBLE	BYRON M BLACKSMITH SHOP	896	50			2	600	390	1500	1110
0002	D-3	HUGHSON	ROBERT GRIST/FLOUR MILL	105	5000	STEAM	30	2	500	30000	35000	5000
0002	G-2	HUSON	GEORGE SOAP/POTASH FACT	376/378-P	3000	STEAM	4	6	2000	20000	23000	3000
0003	C-1	HUTCH H & C	TAILOR/MENS	243				2	500	1500	2000	500
0003	C-1	HYNES JAMES	TAILOR SHOP	243	50			1	300	1000	1500	500
0002	G-2	HYSLOP & RONALD	STEAM ENGINE FAC	315-E	15000	STEAM	50	42	18000	6000	50000	44000
0002	G-2	HYSLOP & RONALD	IMPLEMENT FACTOR	311	10000	STEAM	50	20	9000	4000	20000	16000
0002	G-2	HYSLOP & RONALD	SHIP BUILDING YA	327	3000	STEAM	10	40	18000	15000	30000	15000
0002	G-1	JACQUES	FRANCIS HARNES SHOP	179-S	1000			6	2000	2000	5000	3000
0002	G-1	JAHNKE	ALBERT CABINET SHOP	261	300	STEAM	12	15	3000	1900	6000	4100
0002	B-1	JEVINS HENRY ?	CARPENTER SHOP	259	100			1	200	25	300	275
0002	E-1	JOHNSON ROBERT	BLACKSMITH SHOP	896	50			1	140	34	100	66
0003	C-2	JOHNSTON	JOHN H SAW MILL	251	3000	STEAM	45	16	3760	11440	22880	11440



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CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0002	G-2	JONES J M	GUNSMITH SHOP	309/897-G	1000			0		20	50	30
0003	C-2	JONES JACOB	COOPER SHOP	259-C	50			1	480	300	720	420
0003	C-1	JUDSON WILLIAM	PAINT SHOP	421-D	100			3	600	800	2000	1200
0003	C-1	KELLY GEORGE	WAGON SHOP	329	200			2	600	175	1500	1325
0003	B-2	KENNEDY WILLIAM	WAGON FACTORY	329	200			1	300	24	1000	976
0003	C-2	KIMMERLY & HART	CARRIAGES/BLACKS	329/896	800			7	1400	1100	4500	3400
0003	C-2	KING WILLIAM	HARNESS SHOP	179-S	50			1	300	270	625	355
0002	B-1	KING LEWIS	BLACK SALTS EST	378-P	10			1	40	26	40	14
0002	D-3	KINNEY LEWIS	PLANING/SASH/DOO	254	4000	STEAM	20	17	1100	50000	58000	8000
0002	F-1	KINNEY CALEB B	BLACKSMITH FORGE	896	50			2	500		750	
0003	C-1	KIRBY SQUIRE	BRICK FACTORY	351-B	30	HORSE	1	4	340	8		392
0002	D-3	KITCHEN GEORGE	BLACKSMITH SHOP	896	75			1		70	500	430
0003	A-1	KITCHEN JOBIS	BLACKSMITH FORGE	896	90			1	100	30		170
0002	D-3	KITCHEN JUDSON	POT ASHERY	378-P	50			1		120	150	30
0002	G-1	KOGLESCHATZ FRANCI	TOBACCO MF	153	1500			6	1872	1000	4500	3500
0002	C-1	LABERDIE DANASCUS	BLACKSMITH SHOP	896	40			1	90	20	150	130
0002	D-3	LABERDIE PETER	SHOEMAKER	174	100			1		400	800	400
0002	B-1	LAING JOHN	BLACK SALTS	378-P	30			1		8	13	5
0002	F-3	LALOND JOSEPH	CABINET SHOP	261	3000	STEAM	6	3	1500	1000	6000	5000
0002	F-2	LAMB JOHN W	FLOUR MILL	105	2000	STEAM		2	300	600	800	200
0002	G-1	LAMONT H & M	TAILOR DEPARTMEN	243	5000			10	5500	7825	15840	8015
0002	G-1	LAMONT JAMES	PORK CURING EST	101-P	1000			30	4730	72553	84553	12000
0003	C-2	LAMONT & SCAMAN	GRIST MILL	105	2700	STEAM	30	4	2000	41600	47840	6240
0003	B-1	LANDON CHARLES	CABINET SHOP	261	200			1	360	40	500	460
0002	D-3	LANE ADONIRAM	BLACKSMITH SHOP	896	600			2	400	300	1500	1200
0003	C-1	LARSON RICHARD P	HARNESS SHOP	179-S	150			2	500	1320	2000	680
0003	E	LAUGHTON WILLIAM	MILLINER SHOP	244	50			2	130	1200	1800	600
0003	C-1	LAWRENCE J JOHN	TANNERY	172	800			1	300	300	900	600
0003	C-1	LAWRENCE MARY	MILLINERY SHOP	249-M				1	100	200	266	66
0002	B-1	LAYTON D ?	POTASH/BLACK SAL	378-P	20			1	37	25	37	12
0003	C-1	LEAK HENRY	BLACKSMITH FORGE	896	150			1	400	400	900	500
0003	C-1	LEAK HENRY	WAGON SHOP	329	150			1	200	100	400	300
0003	C-1	LECHANCE JOHN	WAGON SHOP	329	50			2	936	500	1500	1000
0003	C-1	LECHANCE JOHN	BLACKSMITH FORGE	896	60			1	468	250	500	250
0002	F-3	LEE JOHN	WATCHMAKER SHOP	695	150			2	500		500	
0003	A-2	LLOYD JOHN C	FOUNDRY	311	4000	STEAM	25	9	3000	840	6000	5160
0002	G-2	LOWE & CO	COOPER SHOP	259-C	600			7	3000	1500	7500	6000
0002	G-2	LOWE ROBERT & CO	GRIST MILL	105	16000	STEAM		9	4000	45000	60000	15000
0003	E	LUKE JAMES	WAGONS/BLACKSMIT	329/311	3000	STEAM	10	5	1700	2000	5170	3170
0002	B-2	MALOTT ALVIN	POT ASHERY	378-P	100			1	200	100	315	215
0002	B-1	MANN JAMES	BLACK SALTS	378-P	50			1	60	50	65	15
0002	B-1	MARCHAND JULIUS	BLACK SALTS	378-P	15			1	20	16	25	9
0002	B-1	MARCHAND PETER	BLACK SALTS EST	378-P	5			1	15	16	23	7
0002	G-1	MARQUAND JAMES	JEWELRY EST	392	1000			2	1500	500	3000	2500
0002	B-1	MARSHAL GEORGE	CHEESE FACTORY	104	500			3	160	810	990	180
0003	E	MARTIN ROBERT	PUMP FACTORY	315-P	600	HORSE	1	5	1000	1580	8400	6820
0002	F-3	MARTIN THEODOR	TANNERY	172	1300	STEAM	16	3	750	1375	2800	1425
0002	F-3	MARTIN THEODOR	SHOE SHOP	174	200			3	620	1050	2400	1350
0002	F-3	MARTIN HENRY	ARTIST	862	10			1	200		300	
0003	A-2	MCCAIN JOSEPH	TANNERY	172	1200	STEAM	10	1	400	400	1400	1000
0002	G-1	MCCOLL & CAMPBELL	FANNING MILL SHO	311	3000			10	4500	8000	18000	10000

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CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0003	D-1	MCCOLLUM NEIL	OIL REFINERY	365	1500	HORSE	2	3	1174	326	2680	2354
0003	E	MCCULLOGH JOHN	OIL REFINERY	365	3000	STEAM	12	2	500	3650	9500	5850
0002	B-2	MCDONALD M ?	BLACKSMITH SHOP	896	200			1	300	365	900	535
0002	F-3	MCDUGALL WILLIAM	LIME KILN	358-L	25			2	390	285	480	195
0003	A-3	MCEWEN JAMES	SHOE SHOP	174	200			2	140	200	700	500
0003	B-1	MCFARLANE NEIL	BLACKSMITH SHOP	896	400			1	360	30	500	470
0002	D-1	MCGARVIN MICHAEL	BLACKSMITH SHOP	896	200			1	50	71	100	29
0002	F-3	MCGIBB JOHN	BLACKSMITH SHOP	311				2	500	75	438	363
0002	G-2	MCINTOSH JOHN	SADDLE/HARNESS	F 179-S/179-T	1000			3	1000	2000	3770	1770
0003	A-1	MCKAY ROBERT	SAW MILL	251	2000	STEAM	10	6	324	800	1200	400
0003	C-2	MCKAY & HART	WAGON SHOP	329	40			2	600	100	700	600
0002	C-1	MCKELLER ARCH	SAW MILL	251	2000	STEAM	30	9	1625	20000	20000	0
0002	G-1	MCKEOUGH J & W ?	BOILER/TINWARE	M 301/304-T	30000			10	5000	10000	20000	10000
0003	E	MCLEARY DUGALD	BOOT/SHOE SHOP	174	200			1	300	380	800	420
0003	B-2	MCLEARY D ?	CARPENTER	259	1500			8	4000	600	2000	1400
0002	C-1	MCLEAN WILLIAM	BLACKSMITH SHOP	896	80			1	30	30	100	70
0003	B-2	MCLEAN WILLIAM ?	SAW/PLANING MILL	251	9000	STEAM	20	5	1200	18000	25000	7000
0002	D-3	MCMAHON PATRICK	POT ASHERY	378-P	50			1		8	13	5
0002	F-3	MCRAE WILLIAM	GRIST MILL	105	7000	STEAM	30	3	1200	30000	37860	7860
0003	C-2	MCVEY ROBERT	BAKERY	107	100			2	720	800	2000	1200
0002	D-3	MEREDITH JOSEPH	CABINET SHOP	261	300			0		1000	1500	500
0002	B-2	MERRILL DAVID P	CABINET SHOP	261	50			1	120	15	150	135
0002	D-1	MIFFLIN JAMES	POT ASHERY	378-P	30			1	250	12	27	15
0003	C-1	MILLER GEORGE	COOPER SHOP	259-C	900			5	416	764	3026	2262
0003	A-3	MIMMACK WILLIAM ?	WAGON SHOP	658	100			1	400	75	500	425
0003	A-3	MITTON JAMES G	BLACKSMITH FORGE	896	200			1	50	130	250	120
0003	A-3	MOODY JOHN	CLOTH FACTORY	182	5000	STEAM	20	7	700	1200	2750	1550
0003	A-3	MOODY JOHN	GRIST MILL	105	5000	STEAM	20	2	624	2200	3500	1300
0002	C-2	MOORE THOMAS	BLACKSMITH SHOP	896	75			1	100	40	140	100
0003	A-3	MORGAN WILLIAM	WAGON SHOP	329	100			1	200	60	300	240
0002	G-1	MORRIS JAMES	COOPER SHOP	259-C	100			2	600	250	900	650
0002	B-2	MORRIS THOMAS	POT ASHERY	378-P	50			2	250	30	51	21
0003	C-2	MOUNTEIR WILLIAM	BAKERY	107	100			2	400	900	1440	540
0002	E-2	MUER CORNELIUS ?	BRICK/DRAIN FACT	351-B	1500	HORSE	2	12	1000	100	10000	9900
0003	C-2	NELLES WILLIAM	HARNES SHOP	179-S	20			1	320	584	1000	416
0002	G-1	NICHOL THOMAS	GUN SHOP	309/897-G	1400			3	1400	300	2000	1700
0003	B-2	NICKLE THOMAS	BLACKSMITH	896	800			1	300	365	1800	1435
0002	G-1	NORTHWOOD JOSEPH	SAW MILL	251	8000	STEAM	45	24	6000	20000	25000	5000
0002	G-2	O'FLYNN PATRICK	COOPER SHOP	259-C	1200			4	1000	1000	3000	2000
0002	G-2	O'REILLY C P	BOOT/SHOE SHOP	174	2000			4	1300	1200	3000	1800
0002	E-2	OLDERSHAW JAMES	LIME KILN	358-L	560			5	360	12	200	188
0002	G-1	OSWALD JOHN	PAINT SHOP	421-D	250			5	2096	1000	3000	2000
0003	A-3	PAGE JOHN	POTASH FACTORY	378-P	600			2		150	700	550
0003	A-3	PAGE JOHN	SOAP FACTORY	376	100			2		75	200	125
0002	C-2	PARDO T L & W	SAW MILL	251	4000	STEAM	25	8	1400	5000	9000	4000
0002	F-1	PARKE REUBEN	SHINGLE FACTORY	251-S	50	HORSE	1	2	280	8	100	92
0002	F-3	PATTERSON WILLIAM	SAW/GRIST MILL	251/105	25000	STEAM	50	12	5628	24500	40000	15500
0002	F-3	PATTERSON WILLIAM	FOUNDRY	294	200	STEAM	10	4	626	390	700	310
0003	E	PEACOCK GEORGE	TAILOR SHOP	243	150			1	300	658	1008	350
0002	F-3	PECK WILLIAM A	BLACKSMITH SHOP	896	25			1	120	30	100	70

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0003	A-1	PERSONS JOSEPH	BLACKSMITH	FORGE 896	350		.	2	400	200	800	600
0003	A-1	PERSONS WILLIAM	BLACKSMITH	FORGE 896	300		.	2	600	196	1000	804
0002	D-1	PIKE & RICHARD	SAW MILL		2000	STEAM	20	9	1400	3750	9000	5250
0003	C-1	PODLISKE JOSEPH	CABINET SHOP	251	280		.	1	468	176	1000	824
0002	G-1	POILE CHARLES	BOOT/SHOE SHOP	174	75		.	3	3744	1440	8736	7296
0003	C-1	PUPST BENJAMIN ?	MERCHANT TAILOR	243	200		.	8	560	1400	2100	700
0002	G-2	RAMSAY GEORGE	BLACKSMITH SHOP	896	300		.	1	.	30	200	170
0002	E-2	RANKIN ROBERT	BLACKSMITH	FORGE 251-S	1500	STEAM	16	9	784	122	356	234
0002	B-1	RANKIN WILLIAM ?	COOPER SHOP	259-C	60		.	1	80	30	120	150
0002	F-3	RAY GEORGE	WAGON SHOP	329	500		.	2	600	150	965	815
0002	E-1	RAY WILLIAM	SAW MILL	251	3000	STEAM	28	5	1000	3000	6500	3500
0002	C-4	REMO	BLACKSMITH	FORGE 896	50		.	1	100	100	200	100
0002	D-4	REDLEY WILLIAM	BLACKSMITH	FORGE 896	400		.	1	.	150	800	650
0003	E	REID COLIN	PLANING/SASH/DOO	254	5000	STEAM	20	6	1500	2600	6650	4050
0003	B-2	REYKROF JOSEPH ?	SHOEMAKER	174	50		.	3	700	500	1300	800
0003	E	RICHARDS HENRY	POTASH FACTORY	378-P	300		.	2	300	375	1400	1025
0002	G-1	RICHARDS/SUTHERLA	KENT BAKERY	107	10000		.	15	5580	30200	46800	16600
0002	B-1	RICHARDSON JOHN	CHEESE FACTORY	104	200		.	4	200	560	770	210
0002	G-1	RICHARDSON W & T	MERCHANT TAILOR	243	300		.	9	2800	7825	15840	8015
0003	C-1	RIGGS DAVID P	MARBLE WORKS	353	50		.	1	156	100	300	200
0002	G-2	ROBERT FRANCES ?	GRIST MILL	105	4500	STEAM	15	3	800	15000	17400	2400
0002	E-2	ROBERT FRANCIS	CARRIAGE FACTORY	329	300		.	2	600	255	840	585
0003	D-1	ROBERTS JOSEPH	SAW MILL	251	1000	STEAM	10	5	1200	1800	4320	2520
0003	C-1	ROBINSON BENJAMIN	GRIST MILL	105	3000	STEAM	20	3	950	25000	28000	3000
0003	C-1	ROBINSON BENJAMIN	CARDING MILL	189-W	1000	STEAM	20	1	50	1200	1440	240
0002	G-2	ROBINSON FREDERIC	GRIST MILL	105	3000	STEAM	20	2	940	10000	15000	5000
0003	A-3	ROCKY GEORGE	WAGONS/BLACKSMIT	329	1500		.	2	800	600	2500	1900
0002	G-1	ROSS GEORGE	BLACKSMITH SHOP	311	400		.	1	600	125	170	45
0002	G-2	ROSS GEORGE	BLACKSMITH SHOP	896	400		.	1	500	250	1200	950
0002	G-1	ROSS MISS	MILLINER SHOP	244/249-M	75		.	9	1500	2900	4500	1600
0003	E	RUBRUGH WILLIAM	TIN SHOP	304-T	500	HORSE	.	6	1000	1000	4500	3500
0002	D-2	RUBLE JESSE	FELLOE/HORN FACT	329-P	100		1	1	.	52	150	98
0003	C-1	RYCKMAN SAMUEL	COOPER SHOP	259-C	250		.	1	300	142	900	758
0002	G-1	SAINSBURY ROBERT	BLACKSMITH SHOP	311	1500		.	5	2340	2775	6400	3625
0002	G-1	SAWERMANN WILLIAM	BOOT/SHOE SHOP	174	75		.	5	1820	5000	4430	-570
0003	A-3	SCHINDLER F X	TAILOR ESTABLISH	242	100		.	3	160	100	600	500
0003	A-3	SCHLANKER THOMAS	HARNESS SHOP	179-S	200		.	2	400	600	1200	600
0003	E	SCOTT ALVIN	TAILOR SHOP	243	75		.	2	500	380	880	500
0002	B-1	SCOTT THOMAS	BLACK SALTS	378-P	10		.	1	22	20	31	11
0002	C-4	SCOTT THOMAS	BOOT/SHOE SHOP	174	200		.	1	300	50	500	450
0002	G-1	SCRIBNER WILLIAM	ORGAN MANUFACTOR	399-P	200		.	6	2600	1200	8000	6800
0002	D-3	SCRIBNER JOHN	BAKERY	107	50		.	0	.	1000	1500	500
0003	A-2	SHAW CHARLES	CARRIAGE SHOP	329	1500		.	6	1440	1000	3450	2450
0002	D-4	SIMMONS GEORGE	BLACKSMITH	FORGE 311	400		.	1	450	100	1000	900
0003	C-2	SLADE JOHN	SHOE SHOP	174	100		.	1	400	600	1000	400
0002	C-1	SLATER U ?	BROOM FACTORY	399-B	90		.	1	140	72	210	138
0002	G-2	SMALL & QUIRK	STAVE/SHINGLE/PU	251/315-P	3000	STEAM	16	9	2500	3100	8250	5150
0003	C-1	SMITH ALFRED	SAW/GRIST MILL	251/105	.	WATER	25	4	500	12000	14400	2400
0003	C-2	SMITH ALFRED	SAW MILL	251	1200	WATER	10	2	75	50	80	30
0003	C-2	SMITH ALFRED	GRIST MILL	105	1200	WATER	18	1	320	12000	13250	1250
0002	G-1	SMITH ISAAC	MERCHANT TAILOR	242	150		.	7	1500	5000	8000	3000



KENT COUNTY: FIRMS BY NAME OF PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0002	B-1	SMITH JAMES	SAW MILL	251	3000	STEAM	20	5	625	2000	2660	660
0002	B-1	SMITH JAMES	GRIST MILL	105	2000	STEAM	20	2	360	10128	11168	1040
0002	G-2	SMITH JOHN	TANNERY	172	5000	STEAM	12	5	2000			
0002	F-3	SMITH JOHN L	BAKERY	107	25			1	300	624	928	304
0002	G-1	SMITH ROBERT	CABINET SHOP	261	10000	STEAM	16	34	8300	3125	15220	12095
0002	G-1	SMITH SIMEON	SADDLE/HARNESS S	179-S/179-T	4000		18	9	3600	1700	25000	23300
0002	B-2	SMITH THOMAS	SAW MILL	251	1600	STEAM	18	3	785	150	1145	995
0002	B-2	SMITH ABRAHAM	BLACKSMITH SHOP	896	500			2	465	80	600	520
0002	F-3	SMITH CHARLES WM	BAKERY	107	700			1	240	771	1285	514
0002	B-1	SMITH DAVID	SHINGLE FACTORY	251-S	160			2	250	160	500	340
0002	D-1	SMITH JAMES	PLOUGH FACTORY	311	400			2	200	385	700	315
0003	B-3	SMITH JAMES	BLACKSMITH FORGE	896	100			1		5	200	195
0003	C-2	SMITH JAMES & SON	WOOLEN FACTORY	182	6200	STEAM	12	12	1000	4500	5528	1028
0002	G-1	SOUTAR & CO	FOUNDRY/MACHINE	311	5000	STEAM	10	12	5000	4500	13000	8500
0003	A-2	SPRINGSTEEN JAMES	LOUR MILL	105	3000	W/S	16	3	1080	15000	18080	3080
0003	C-2	STACEY NICHOLA	CABINET SHOP	261	100			1	300	40	600	560
0002	D-2	STEPHENS CALVIN	BLACKSMITH SHOP	896	500			1		6	100	94
0002	G-1	STEPHENSON RUPHUS	PRINTING OFFICE	289	10000			9	3000	1050	6000	4950
0002	B-1	STEWART JAMES	PEARL ASH FACTOR	378-P	100			2	375	1680	1960	280
0003	B-3	STREET JOSEPH	CHEESE FACTORY	104	500			2	250	512	800	288
0002	B-2	STRUTHERS JOHN	POT ASHERY	378-P	150			1	200	50	180	130
0003	E	SUTHERLAND EBENEZ	BUILDER/CARPENTE	254	200			4	210	1000	2000	1000
0003	A-2	SWARTHANS ISAAC	SAW MILL	251	10000	STEAM	30	13	3400	4000	12000	8000
0003	B-2	TAIT ANDREW	RAKE/SNATH/CRADL	311/306	2000	STEAM	16	3	800	110	1600	1490
0003	G-3	TAPS JAMES ?	SHINGLE FACTORY	251-S	300			2	196	200	548	348
0002	B-2	TAYLOR & BRENAGE	CARDING/CLOTH FC	189-W/182	30000	STEAM		24	5613	28280	42345	14065
0002	E-1	TAYLOR FRANCIS	SHOEMAKER SHOP	174	30			1		30	90	60
0002	D-3	TEER DANIEL	HARNES SHOP	179-S	100			1	300	500	1000	500
0003	C-2	THOMPSON A V	TAILOR SHOP	243	100			1	300	400	800	400
0003	E	THOMPSON ALEXAND	DRESSMAKING/MILL	244	500			4	250	700	1200	500
0002	G-2	THOMPSON JOHN D	CARRIAGE/WAGON S	329	1500			1	300	400	1940	1540
0002	G-2	THOMPSON JOHN D	BLACKSMITH SHOP	896	300			1	400	300	1000	700
0002	G-1	TILT JOSEPH	CARPENTER SHOP	421-C	500			13	5000	5000	8000	3000
0003	E	TIME HUGH ?	SAW MILL	251	2000	STEAM	14	6	1600	2000	4000	2000
0002	E-2	TRAMBLEY VITAL	WHEELS/CARRIAGES	329-P	800	HORSE	3	3	1070	360	1190	830
0003	C-2	TRERICE ISAAC	LIME KILN	358-L	50			1	150	150	525	375
0003	C-2	TRICKEY & CO	SAW MILL	251	6000	STEAM	40	16	3840	15000	30000	15000
0002	G-1	TROTTER HENRY	MARBLE FACTORY	353	160			1	600	840	1600	760
0003	E	TROTT JAMES	WAGONS/BLACKSMIT	329	2000			9	2000	2000	5420	3420
0002	G-1	TUCKER WILLIAM	MARBLE SHOP	353	50			2	1400	2000	4500	2500
0003	A-2	TURNBULL & EVERET	N/G	896	50			2	540	5300	600	600
0002	F-1	VAN ALLEN DANIEL	SAW MILL	251	12000	STEAM	75	35	10000	18400	39663	21263
0002	D-2	VANHORN JOHN	CHEESE FACTORY	104	1000			2	350	1318	1900	582
0003	C-2	VANSTONE SAMUEL	BLACKSMITH SHOP	896	150			2	500	280	1300	1020
0002	G-1	VERRALL GEORGE	BOOK/JOB PRINTIN	286	1000			3	950	500	1500	1000
0003	C-2	VIRGO & FRENCH	SASH/DOOR FACTOR	254	3000	STEAM	16	6	900	3000	5100	2100
0003	A-2	WADE & WALBURN	FURNITURE	261	100			2	250	160		
0003	B-2	WALKER JOHN	CARPENTER	259	2000			3	1000	700	2800	2100
0002	F-3	WALKER PERMELIA ?	WEAVE SP/DRESSMA	182-W/244	25			3	120		300	
0003	C-2	WANNAMAKER & HOWA	BLACKSMITH SHOP	896	250			3	800	400	1700	1300
0003	C-2	WARD JAMES C	TURNING LATHE	259-W	50	STEAM	1	1	160		260	

KENT COUNTY: FIRMS BY NAME OF PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0003	E	WARD	TURNING SHOP	259-W		STEAM	20	1	100	60	300	240
0002	D-3	WARNER	WOOLEN FACTORY	182	300	STEAM	10	10	600	3000	6000	3000
0003	C-2	WATSON	CABINET SHOP	261	50			2	360	128	1000	872
0002	D-4	WATT	MACHINE SHOP	308	2000	STEAM	8	2	300	200	700	700
0003	C-2	WEBSTER & WATSON	TANNERY	172	1000	STEAM	8	3	800	2500	8332	5832
0003	C-2	WEBSTER WILLIAM	SHOE SHOP	174	100			3	1000	2940	5616	2676
0002	F-2	WEBSTER TRUMPOUR	BLACKSMITH FORGE	896	60			3	300	20	100	80
0003	C-2	WELLS HENRY	BLACKSMITH SHOP	896	100			1	300	280	700	420
0003	C-2	WELLS AMANDA	MILLINER SHOP	244	80			1	150	500	800	300
0002	E-2	WEMP BARNABUS	BLACKSMITH FORGE	896	75			1	39	7	50	43
0002	D-3	WHARRAN FRANCIS	TAILOR SHOP	242	100			0		500	1000	500
0003	A-1	WHITSELL ALEXAND	SHINGLE FACTORY	251-S	100	HORSE	8	2	180	100	284	184
0003	A-3	WHITZELL JOSEPH	SHINGLE MACHINE	251-S	300	HORSE	2	2	128	624	3150	2526
0002	F-3	WILKINSON EDWARD	BLACKSMITH SHOP	896	175			1	350	125	800	675
0003	C-2	WILLISTON MARGARE	MILLINER/DRESSMA	244/249-M	70			2	200	500	700	200
0002	B-2	WILSON HENRY	POT ASHERY	378-P	100			1	200	20	60	40
0003	C-1	WILSON JOSEPH F	CABINET SHOP	261	100			2	800	125	1200	1075
0003	A-2	WILSON WILLIAM	LIME KILN	358-L	100			2	200	210	800	590
0003	A-2	WOOD AMOS	SAW MILL	251	1000	WATER		2	180	60	240	180
0002	B-1	WOODS ALEXANDER	BLACKSMITH/WAGON	329/896	300			2	500	290	1000	710
0002	G-1	YOUNG ALEXAND	BOOT/SHOE SHOP	174	500			12	5475	6000	7000	1000
0003	A-3	YOUNG JOHN	BLACKSMITH FORGE	896	100			1	50	100	400	300
0002	G-1	YOUNG W & J	WAGON SHOP	329	1500			7	3000	2000	3500	1500
0003	C-2	YOUNG MARGARET A	MILLINER SHOP	244/249-M	70			2	200	600	900	300
0003	C-1	YOUNG NELSON	TURNING LATHE	259-W	10			1	50	50	155	105
0003	C-1	YOUNG NELSON	TURNING LATHE	259-W	10			1	50	50	155	105
0003	A-3	YOUNGE JAMES	BLACKSMITH FORGE	896	200			2		140	600	460
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							2210	1781	445512	1078918	1988354	902752
							=====					
							591701					

## CHATHAM: ALL FIRMS BY NAME OF PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0002	G-2	ALDIS	SALEM ?	251	5000	STEAM	20	8	2000	2000	8000	6000
0002	G-1	ALLEN	ROBERT	893	300		.	2	900	1000	3000	2000
0002	G-1	ANDERSON	LEVI	259-C	100		.	2	450	100	650	550
0002	G-1	BALL	WILLIAM	304-T	2000		.	4	1300	1400	3500	2100
0002	G-1	BATES	FREDERI	353	500		.	2	771	520	3480	2960
0002	G-2	BAXTER	HENRY	358-L	500		.	2	200	600	1200	600
0002	G-2	BAXTER	JAMES	254	1000	STEAM	16	5	2000	360	4725	4365
0002	G-2	BAXTER & BROWN	SASH/DOOR/BLIND	105	12000	STEAM	30	5	2400	22000	27000	5000
0002	G-2	BAXTER & BROWN	GRIST MILL	189-W	4000	STEAM	.	3	.	.	.	.
0002	G-1	BENNETT	FURRIER SHOP	246	50		.	1	300	200	300	100
0002	G-2	BENNETT	THOMAS	109-D	2000	STEAM	12	1	150	3000	15000	12000
0002	G-2	BENNETT	GRIST MILL	105	500	STEAM	12	1	175	15000	18000	3000
0002	G-2	BERRY	WILLIAM	108-I	2000		.	4	700	1600	1600	0
0002	G-1	BLACKBURN	ICE HOUSES	251	2500	STEAM	35	10	1800	4000	10000	6000
0002	G-2	BORDEAU & PELTIER	SAW MILL	896	300		.	1	350	600	1000	400
0002	G-2	BORDEAU & PELTIER	BLACKSMITH FORGE	329	300		.	1	350	600	1000	400
0002	G-1	BRADY	WAGON SHOP	261	2000		.	6	3000	550	6700	6150
0002	G-2	COATE & LAMONT	CABINET SHOP	376/378-P	8000	STEAM	6	8	1600	12000	21000	9000
0002	G-2	COCKER	SOAP/POTASH FACT	244	40		.	8	700	3000	6000	3000
0002	G-2	CORNELL	MILLINERY EST	351-B	200	HORSE	1	16	500	20	5000	4980
0002	G-1	COWAN	BRICK MAKING	244	50		.	5	375	.	500	.
0002	G-2	CRAIG	MILLINERY SHOP	896	400		.	2	100	840	800	-40
0002	G-2	CUNNINGHAM	WEAVING LOOM	182-W	400		.	2	600	60	1000	940
0002	G-1	DALGARNO & PARKIN	BLACKSMITH SHOP	315-E/301	4000	STEAM	30	39	12000	2500	25000	22500
0002	G-1	DAVIS	FOUNDRY/BOILER W	304-T	300		.	1	350	300	750	450
0002	G-1	DELOS	TIN SHOP	242	50		.	2	900	2000	4000	2000
0002	G-1	DENNIS	TAILOR SHOP	421-D	30		.	1	300	400	1300	900
0002	G-1	DOLTON	PAINT SHOP	329	120		.	4	1268	90	1700	1610
0002	G-1	FARREL	WAGON SHOP	174	75		.	3	900	1800	1500	-300
0002	G-1	FLATER	SHOE SHOP	421-C	300		.	5	1610	2500	8000	5500
0002	G-1	FLATER WILLIAM & CARPENTER	SHOE SHOP	421-C	500		.	4	1870	1200	5000	3800
0002	G-2	FONTENEAU	BLACKSMITH SHOP	896	600		.	1	50	250	1200	950
0002	G-1	GARDINER	BLACKSMITH	251	1500	WATER	10	2	200	600	2400	1800
0002	G-2	GARNER	JAMES	109-B	3000	HORSE	1	4	600	3500	8000	4500
0002	G-1	GEMMELL	BREWERY	289	3000		.	8	1800	850	3500	2650
0002	G-1	GERNAY	PRINTING OFFICE	243	50		.	2	600	2500	3500	1000
0002	G-2	GIBSON	TAILOR SHOP	896	400		.	0	.	300	1000	700
0002	G-1	GRAY	RICHARD	329	4000	STEAM	16	33	7616	3380	11345	7965
0002	G-1	HADLEY	WAGON SHOP	254	4500	STEAM	35	12	5616	3000	8616	5616
0002	G-1	HAMILTON	SYLVEST SASH/DOOR FACTOR	329	3000		.	11	5184	1850	7000	5150
0002	G-1	HARPER	WAGON/CARRIAGE S	329	100		.	5	2000	1332	3600	2268
0002	G-1	HICKLIN	PAINT SHOP	421-D	150		.	2	600	1200	1100	1200
0002	G-1	HIGGINS	WAGON SHOP	329	100		.	6	2000	1000	3000	2000
0002	G-1	HOAG WILLIAM & SO	BOOT/SHOE SHOP	174	100		.	8	2000	3500	8500	5000
0002	G-2	HOLMES	MERCHANT TAILOR	243	500		.	4	1600	15000	18000	3000
0002	G-2	HORN	GRIST/FLOUR MILL	105	4000	STEAM	40	3	500	900	1500	600
0002	G-2	HUSON	JOHN A	109-S	2000		.	6	2000	20000	23000	3000
0002	G-2	HYSLOP & HYSLOP	GEORGE	376/378-P	3000	STEAM	4	42	18000	6000	50000	44000
0002	G-2	HYSLOP & RONALD	SOAP/POTASH FACT	315-E	15000	STEAM	50	20	9000	4000	20000	16000
0002	G-2	HYSLOP & RONALD	STEAM ENGINE FAC	311	10000	STEAM	10	40	18000	15000	30000	15000
0002	G-1	JACQUES	IMPLEMENT FACTOR	327	3000	STEAM	.	6	2000	2000	5000	3000
0002	G-1	JACQUES	SHIP BUILDING YA	179-S	1000		.	6	2000	2000	5000	3000
0002	G-1	JACQUES	HARNES SHOP	179-S	1000		.	6	2000	2000	5000	3000



## CHATHAM: ALL FIRMS BY NAME OF PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0002	G-1	JAHNKE	ALBERT	261	300	STEAM	12	15	3000	1900	6000	4100
0002	G-2	JONES	GUNSMITH SHOP	309/897-G	1000			0		20	50	30
0002	G-1	KOGLESATZ	FRANCI	153	1500			6	1872	1000	4500	3500
0002	G-1	LAMONT	H & M	243	5000			10	5500	7825	15840	8015
0002	G-1	LAMONT	JAMES	101-P	1000			30	4730	72553	84553	12000
0002	G-2	LOWE & CO	COOPER SHOP	259-C	600			7	3000	1500	7500	6000
0002	G-2	LOWE ROBERT & CO	GRIST MILL	105	16000	STEAM		9	4000	45000	60000	15000
0002	G-1	MARQUAND JAMES	JEWELRY EST	392	1000			2	1500	500	3000	2500
0002	G-1	MCCOLL & CAMPBELL	FANNING MILL SHO	311	3000			10	4500	8000	18000	10000
0002	G-2	MCINTOSH	JOHN	SADDLE/HARNES F	1000			3	1000	2000	3770	1770
0002	G-1	MCKEOUGH J & W ?	BOILER/TINWARE M	301/304-T	30000			10	5000	10000	20000	10000
0002	G-1	MORRIS	JAMES	259-C	100			2	600	250	900	650
0002	G-1	NICHOL	THOMAS	309/897-G	1400			3	1400	300	2000	1700
0002	G-1	NORTHWOOD	JOSEPH SAW MILL	251	8000	STEAM	45	24	6000	20000	25000	5000
0002	G-2	O'FLYNN	PATRICK	259-C	1200			4	1000	1000	3000	2000
0002	G-2	O'REILLY	C P	174	2000			4	1300	1200	3000	1800
0002	G-1	OSWALD	JOHN	421-D	250			5	2096	1000	3000	2000
0002	G-1	POILE	CHARLES	BOOT/SHOE SHOP	75			8	3744	1440	8736	7296
0002	G-2	RAMSAY	GEORGE	BLACKSMITH SHOP	300			1		30	200	170
0002	G-1	RICHARDS/SUTHERLA	KENT BAKERY	107	10000			15	5580	30200	46800	16600
0002	G-1	RICHARDSON W & T	MERCHANT TAILOR	243	300			9	2800	7825	15840	8015
0002	G-2	ROBERT FRANCES ?	GRIST MILL	105	4500	STEAM	15	3	800	15000	17400	2400
0002	G-2	ROBINSON FREDERIC	GRIST MILL	105	3000	STEAM	20	2	940	10000	15000	5000
0002	G-1	ROSS	GEORGE	BLACKSMITH SHOP	400			1	600	125	170	45
0002	G-2	ROSS	GEORGE	BLACKSMITH SHOP	400			1	500	250	1200	950
0002	G-1	ROSS	MISS	244/249-M	75			9	1500	2900	4500	1600
0002	G-1	SAINSBURY	ROBERT	BLACKSMITH SHOP	1500			5	2340	2775	6400	3625
0002	G-1	SAWARMAN	WILLIAM	BOOT/SHOE SHOP	75			5	1820	5000	4430	-570
0002	G-1	SCRIBNER	WILLIAM	ORGAN MANUFACTOR	200			6	2600	1200	8000	6800
0002	G-2	SMALL & QUIRK	STAVE/SHINGLE/PU	251/315-P	3000	STEAM	16	9	2500	3100	8250	5150
0002	G-1	SMITH	ISAAC	MERCHANT TAILOR	150			7	1500	5000	8000	3000
0002	G-2	SMITH	JOHN	TANNERY	5000	STEAM	12	5	2000			
0002	G-1	SMITH	ROBERT	CABINET SHOP	10000	STEAM	16	34	8300	3125	15220	12095
0002	G-1	SMITH	SIMEON	SADDLE/HARNES S	4000			9	3600	1700	25000	23300
0002	G-1	SOUTAR & CO	FOUNDRY/MACHINE	311	5000	STEAM	10	12	5000	4500	13000	8500
0002	G-1	STEPHENSON RUPHUS	PRINTING OFFICE	289	10000			9	3000	1050	6000	4950
0002	G-2	TAYLOR & BRENAGE	CARDING/CLOTH FC	189-W/182	30000	STEAM		24	5613	28280	42345	14065
0002	G-2	THOMPSON	JOHN D	CARRIAGE/WAGON S	1500			1	300	400	1940	1540
0002	G-2	THOMPSON	JOHN D	BLACKSMITH SHOP	300			1	400	300	1000	700
0002	G-1	TILT	JOSEPH	CARPENTER SHOP	500			13	5000	5000	8000	3000
0002	G-1	TRICKEY	HENRY	MARBLE FACTORY	160			1	600	840	1600	760
0002	G-1	TUCKER	WILLIAM	MARBLE SHOP	50			2	1400	2000	4500	2500
0002	G-1	VERRALL	GEORGE	BOOK/JOB PRINTIN	1000			3	950	500	1500	1000
0002	G-1	YOUNG	ALEXAND	BOOT/SHOE SHOP	500			12	5475	6000	7000	1000
0002	G-1	YOUNG	W & J	WAGON SHOP	1500			7	3000	2000	3500	1500
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					274890				524	731	237645	479890
										=====	=====	=====
										932710		452320

BOTHWELL TOWN: ALL ESTABLISHMENTS BY PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0003	E	ALLEN	HENRY	261	150	HORSE	1	2	500	70	750	680
0003	E	EVERY	NOBLE H	243	100		.	1	300	840	1200	360
0003	E	BOON	THOMAS	261	500		.	1	400	200	1000	800
0003	E	CAMPBELL	JOHN A	353	100		.	1	200	1000	3000	2000
0003	E	CASMORE	LOUIS	243	50		.	2	350	940	1200	260
0003	E	CHAMBERS	R & CO	105	3500	STEAM	20	2	750	22000	24500	2500
0003	E	CHAMBERS	R & CO	251	1000	STEAM	20	10	800	1200	2400	1200
0003	E	COLEMAN	JAMES	896	200		.	2	500	140	800	660
0003	E	CREE	JOHN	174	100		.	1	300	405	800	395
0003	E	DYER	MARTHA	249-M	300		.	1	100	300	600	300
0003	E	EDWARD	CHARLES	179-S	400		.	1	300	800	1400	600
0003	E	GAY	WALTER	261	150		.	1	400	50	550	500
0003	E	GORDON	JOHN D	182/189-W	9000	STEAM	20	10	1500	4660	12000	7340
0003	E	GOULDING	HENRY	107	150		.	1	300	2400	3000	600
0003	E	HAWKINS	JOHN	174	100		.	1	300	390	800	410
0003	E	HOLLAND	JOHN W	289	1500		.	4	1200	300	2000	1700
0003	E	HONEY	DAVID A	893	100		.	1	300	127	500	373
0003	E	LAUGHTON	WILLIAM	244	50		.	2	130	1200	1800	600
0003	E	LUKE	JAMES	329/311	3000	STEAM	10	5	1700	2000	5170	3170
0003	E	MARTIN	ROBERT	315-P	600	HORSE	1	5	1000	1580	8400	6820
0003	E	MCCULLOGH	JOHN	365	3000	STEAM	12	2	500	3650	9500	5850
0003	E	MCLARDY	DUGALD	174	200		.	1	300	380	800	420
0003	E	PEACOCK	GEORGE	243	150		.	1	300	658	1008	350
0003	E	REID	COLIN	254	5000	STEAM	20	6	1500	2600	6650	4050
0003	E	RICHARDS	HENRY	378-P	300		.	2	300	375	1400	1025
0003	E	ROUBRUGH	WILLIAM	304-T	500		.	6	1000	1000	4500	3500
0003	E	SCOTT	JOHN B	243	75		.	2	500	380	880	500
0003	E	SUTHERLAND	EBENEZ	254	200		.	4	210	1000	2000	1000
0003	E	THOMPSON	ALEXAND	244	500		.	4	250	700	1200	500
0003	E	TIME	HUGH ?	251	2000	STEAM	14	6	1600	2000	4000	2000
0003	E	TROTT	JAMES	329	2000		.	9	2000	2000	5420	3420
0003	E	WARD	SILAS	259-W	.	STEAM	20	1	100	60	300	240
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					34975		138	98	19890	55405	109528	54123

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